

तमसो मा ज्योतिर्गमय

SANTINIKETAN
VISWA BHARATI
LIBRARY

016.544

B. S. G.

A · CATALOGUE
OF
BRITISH SCIENTIFIC
AND TECHNICAL BOOKS

Covering every Branch of Science and
Technology carefully Classified
and Indexed

PREPARED BY A COMMITTEE
OF THE BRITISH SCIENCE GUILD.

BRITISH SCIENCE GUILD
6, JOHN STREET, ADELPHI, LONDON, W.C. 2.
1921.

THE BRITISH SCIENCE GUILD

FOUNDED IN 1905 BY THE LATE

SIR NORMAN LOCKYER, K.C.B., F.R.S.

President:

The Rt. Hon. LORD MONTAGU OF BEAULIEU, K.C.I.E., C.S.I., V.D., D.L.

Past Presidents:

The Rt. Hon. VISCOUNT HALDANE, K.T., O.M., P.C., F.R.S., 1905-1918.

The Rt. Hon. SIR WILLIAM MATHER, P.C., F.L.D., 1918-1917.

The Rt. Hon. LORD SYDENHAM, G.C.S.I., G.C.M.G., G.C.I.E., G.B.E., F.R.S., 1917-20.

Trustees:

The Rt. Hon. LORD AVEBURY.

The Rt. Hon. LORD BLYTH.

SIR CHARLES MACARA, BART.

MR. ROBERT MOND.

Vice-Chairmen of Committees:

SIR HUGH BELL, BART., C.B.

The Hon. SIR JOHN COCKBURN, K.C.M.G.

SIR RICHARD GREGORY.

Hon. Treasurer: The Rt. Hon. LORD AVEBURY.

Hon. Assistant Treasurer: LADY LOCKYER.

Hon. Legal Advisers:

MESSRS. ASHURST, MORRIS, CRISP & CO.

Hon. Secretary:

Lt. Col. W. A. J. O'MEARA, C.M.G., late R.E. (*Vice-President*).

• *Secretary:* Miss A. D. L. LACEY.

Executive Committee.

THE PRESIDENT.

THE VICE-CHAIRMEN OF COMMITTEES.

THE HON. TREASURER.

THE HON. ASSISTANT TREASURER.

THE HON. SECRETARY.

THE RT. HON. LORD BLEDISLOE,
K.B.E. (*Vice-President*).

SIR WILLIAM H. BRAGG, K.B.E., F.R.S.

SIR ROBERT WALEY COHEN, K.B.E.

SIR ROBERT HADFIELD, BART., F.R.S.

SIR LYNDEN MACASSEY, K.B.E., K.C.

SIR PHILIP MAGNUS, BART., M.P.

MR. ROBERT MOND.

SIR ARTHUR W. MAYO-ROBSON, K.B.E.
C.B., C.V.O., D.SC.

PROFESSOR C. S. MYERS, F.R.S.

SIR ARTHUR NEWSHOLME, K.C.B.

THE RT. HON. SIR GILBERT PARKER,
BART., P.C. (*Vice-President*).

MR. J. J. ROBINSON (*Managing Editor*
of the Journal of the Guild).

COL. SIR RONALD ROSS, K.C.B.,
K.C.M.G., F.R.S.

LADY SHAW.

DR. D. SOMMERVILLE.

MR. CARMICHAEL THOMAS.

DR. ETHEL N. THOMAS.

DR. R. M. WALMSLEY.

MRS. CARRINGTON WILDE.

COL. SIR JOHN S. YOUNG, C.V.O.

Offices:

6, JOHN ST., ADELPHI, LONDON, W.C.2.

TELEPHONE: REGENT 5089.

Aims and Objects of the Guild.

THE BRITISH SCIENCE GUILD is not a scientific society, an institute of industry, or an educational association, but a national organisation in which the interests of science, industry and education are represented, and their activities co-ordinated for the common good. No technical qualifications are required for membership; and the rate of subscription cannot prevent anyone from joining the Guild, and thus giving practical support to its work.

Though the Guild has been in existence since 1905, the objects for which it was founded have only recently been recognised as essential points of a national programme. As stated in 1905, they are as follows:

(1) To bring together as members of the Guild all those throughout the Empire interested in science and scientific method, in order, by joint action, to convince the people, by means of publications and meetings, of the necessity of applying the methods of science to all branches of human endeavour, and thus to further the progress and increase the welfare of the Empire.

(2) To bring before the Government the scientific aspects of all matters affecting the national welfare.

(3) To promote and extend the application of scientific principles to industrial and general purposes.

(4) To promote scientific education by encouraging the support of universities and other institutions where the bounds of science are extended, or where new applications of science are devised.

The attention lately given to science and industry in relation to the State shows that these objects are at last being accepted, and that widespread sympathy exists with the aims of the Guild.

In order to take advantage of this new attitude, in the interests of national welfare, the Guild should be represented in all parts of the Empire by members who will bring its aims before the public by individual efforts, or through local committees combining the activities of science, industry and education.

Outline of Activities.

The Guild, soon after its formation, constituted Committees to enquire into various matters which were at that date (1905) held to be of importance; it has since then, from time to time, constituted additional Committees to deal with new subjects and questions as these have come into prominence.

These Committees, on which many distinguished representatives of industry as well as of science and education have served, have investigated, *inter alia*, the following matters:—

- Awards for Medical Discovery.
- Agricultural Research in the United Kingdom.
- The British Chemical Industries.
- The British Dye Industry.
- The Conservation of Natural Sources of Energy.
- The Co-ordination of Charitable Effort.
- The Design and Manufacture of Microscopes.
- Explosives.
- Fisheries Development.
- The Introduction of the Metric System.
- Medical Research, and many other Medical Questions.
- The Patent Law (Proposed Amendments).
- The Prevention of the Pollution of Rivers.
- The Provision of Glass and other Laboratory Ware.
- Technical Optics, and the Manufacture of Optical Instruments.
- The Synchronisation of Clocks.
- Veterinary Research.
- The Utilisation of Science in Public Departments.

Many very valuable reports have been prepared by these Committees and placed in the hands of Ministers in charge of the Government Departments particularly concerned with the matters and questions dealt with in them.

Recommendations contained in the Reports of the Committees of the Guild have also been widely acted upon outside Government Departments, and there is evidence that the value of the work which the Guild has done, and is doing, is becoming more widely appreciated as time proceeds. However, in order that the Guild shall carry, in connection with the work it has taken up, full weight in responsible quarters, and that its activities may be rendered more effective, an increase in its membership is essential.

In 1918 and 1919 the Guild organised highly successful Exhibitions of British Scientific Products, which were of much assistance in promoting the interests of British science and industry at a critical period.

Applications for Membership should be made to the Secretary, British Science Guild, 6, John St., Adelphi, London, W.C.2. The rates of subscription are:

	£	s.	d.
Life Fellowship	10	10	0
Life Membership	5	0	0
Annual Fellowship	1	1	0
Annual Membership	0	10	0
Annual Membership for Firms	5	5	0

A CATALOGUE OF BRITISH
SCIENTIFIC AND TECHNICAL BOOKS

THE COMMITTEE responsible for the preparation of the
Catalogue of British Scientific and Technical Books
consists of the following members of the British
Science Guild :—

SIR RICHARD GREGORY (*Chairman*).

SIR EDWARD BRABROOK, C.B.

MR. C. L. BRYANT.

DR. J. W. EVANS, F.R.S.

MR. L. W. FULCHER.

MR. J. S. HIGHFIELD.

MR. E. WYNDHAM HULME.

LADY LOCKYER.

DR. H. FORSTER MORLEY.

MR. P. PASSENGER.

MR. J. J. ROBINSON.

MR. ALAN A. CAMPBELL SWINTON, F.R.S.

MR. CARMICHAEL THOMAS.

MRS. WILSON.

COL. SIR JOHN S. YOUNG, C.V.O.

LT.-COL. W. A. J. O'MEARA, C.M.G. (*Hon.*
Secretary of the British Science Guild).

PREFACE.

WHEN the first British Scientific Products Exhibition was organised by the British Science Guild, in the year 1918, one of the stalls was devoted to a display of scientific and technical books. So much interest was taken in this exhibit that it was repeated in the following year, and a selected list of such books was published in the Catalogue of this Exhibition. Similar lists have been issued by the Science Masters' Association and the Association of Science Teachers, but the Guild's list was intended to be of service to industry rather than to education. It provided a handy guide to the chief existing British books on science and technology and proved of decided value to manufacturers seeking suitable works upon the particular subjects with which they were concerned.

The list was reprinted and widely circulated by the well-known scientific and technical booksellers, Messrs. A. and F. Denny, and the many inquiries for it, or for a more complete Catalogue of British books on science and technology, led the British Science Guild to undertake the preparation and publication of such a Catalogue. The work was entrusted to a special committee which had at the outset to decide whether an attempt should be made to establish a standard of merit by which to determine inclusion or exclusion of books in the Catalogue, or whether all titles within the scope of the Catalogue should be admitted. The conclusion reached was that it would be more satisfactory to make the Catalogue a complete record of scientific and technical books other than those intended for primary schools, and elementary volumes of like nature, in the current lists of publishers in the United Kingdom, and obtainable through booksellers in the usual way.

The Committee was fortunate in having among its members Mr. P. Passenger, who not only possesses wide

knowledge and long experience in the handling of books on science and technology, but is also keenly interested in the cataloguing of them. Mr. Passenger undertook the task of making on a uniform plan a card catalogue of the full details of such books in the lists of British publishers; and the Committee is much indebted to him for the care and attention he devoted to this work. In order to secure uniformity in the bibliographic particulars, it was necessary to invite the assistance of publishers, and the Committee is glad to acknowledge that this aid was readily given. It has thus been possible to state, for each volume in the Catalogue, the author's name, title of book, size of page, number of pages, date of last edition, name of publisher, and price at the time (April, 1921) when the Catalogue was sent to the printers.

The volume contains more than six thousand titles, and their satisfactory classification required careful consideration. About fifty main groups were eventually decided upon and these were divided into nearly five hundred sub-classes. Even when a scheme of classification had been formed it was frequently difficult to determine under which head to place a book, but the Committee was fortunately able to secure additional assistance in accomplishing this task and desires to express grateful thanks for it. Prof. J. H. Ashworth, F.R.S., classified the titles of biological books, Miss M. S. Aslin those on agriculture, Prof. H. Wildon Carr dealt with books on philosophy and Miss M. Punnett and Prof. T. P. Nunn with those on mathematics. Other titles were classified by members of the Committee.

The classification adopted is such that, so far as practicable, related subjects are placed near one another; and under each head or sub-head the titles are arranged alphabetically according to author's names. It is thus possible to see at a glance the volumes available in any branch of science and technology. Following this natural order, there is an alphabetical list of authors' names, and a subject index, which should be of service in

Preface.

furnishing an easy guide to a book or group of books upon a particular subject. For the preparation of this subject index, the Committee gladly expresses its obligations to Mr. G. S. Sweeting.

As to what are the best books available is often a matter of individual preference, and the Committee has made no attempt to exercise selective functions in this matter. With the present complete Catalogue, however, to show at a glance the actual works now obtainable, it is much easier to ask an authority upon a specific subject to indicate what he considers the most suitable books for particular needs or purposes—whether educational or industrial—than it would be in the absence of this list, and the Guild would no doubt furnish such information to any of its members who may desire guidance of this kind.

The British Science Guild believes that in producing this Catalogue it is promoting the use of knowledge and thereby furthering the development of education, science and industry. The books themselves represent worthy British scientific products and the Catalogue should be a means of extending their use not only at home but also in parts of the Empire overseas and in countries not yet familiar with what we have to offer in scientific and technical literature. If support to this enterprise is sufficiently encouraging, the Guild hopes to issue a revised edition of the Catalogue annually and thus keep up-to-date a publication which should prove of value to workers in many fields.

R. A. GREGORY.

CLASSIFIED LIST OF CONTENTS.

SCIENCE IN GENERAL.

- i. General and Popular Science 1
- ii. Biographies of Men of Science, etc... 2
- iii. History of Science, Education, Learning, Commerce 4

PHILOSOPHY.

- i. General and Historical 6
- ii. Metaphysics 8
- iii. Ethics 11
- iv. Aesthetics 12
- v. Logic 13

PSYCHOLOGY.

- i. General and Historical 15
- ii. Experimental and Physiological Psychology 17
- iii. Mental Development and Child Study 18
- iv. The Animal Mind 19
- v. The Abnormal and Psycho-Analysis 19
- vi. Social Psychology 20

MATHEMATICS.

- i. Collected Papers 21
- ii. History 21
- iii. Philosophy and Pedagogy of Mathematics 22
- iv. Examination Papers 22
- v. Popular 22
- vi. General Pure Mathematics 22
- vii. Functions 23
- viii. Vectors and Quaternions 23
- ix. Applied Mathematics—Dynamics, Physics, etc. 24
- x. Practical Applied Mathematics (Elementary) 24
- xi. Algebra: a. Elementary 25
 - b. Higher Algebra, Theory of Equations and Quantics 26
 - c. Determinants, Theory of Graphs, etc... 27

- xii. Calculus: a. Elementary 27
 - b. Differential and Integral 28
 - c. Differential Equations, etc... 29
- xiii. Higher Geometry, Pure and Analytical, and Differential Geometry 29
- xiv. Pure Geometry: a. Elementary 30
 - b. Conic Sections 31
 - c. Solid Geometry 32
 - d. Projective Geometry 32
- xv. Analytical Geometry 32
- xvi. Practical Geometry and Graphics 33
- xvii. Mensuration 33
- xviii. Euclid 34
- xix. Non-Euclidean Geometry 34
- xx. Trigonometry: a. Elementary 34
 - b. Plane and Spherical 35
- xxi. Arithmetic 36
- xxii. Logarithms and Slide Rule 37
- xxiii. Mathematical and Physical Tables 37
- xxiv. Statistics 38

MECHANICS.

- i. General 39
- ii. Statics and Dynamics 40
- iii. Hydrostatics and Hydrodynamics 42
- iv. Applied Mechanics 42
- v. Mechanism 43
- vi. Strength and Elasticity of Materials 43
- vii. Mathematical Theory of Elasticity 44
- viii. Theory and Design of Structures 44
- ix. Gyrostatics 45
- x. Measurements, Weights and Calculations 45

MACHINE DRAWING, DESIGN, DRAUGHTSMANSHIP.

- i. General 47
- ii. Geometrical Drawing and Designing, Hand-Lettering 48

Contents.

CIVIL ENGINEERING.

i. General	49
ii. Estimates, Formulæ, etc.	50
iii. Surveying: Land and Mine	50
iiia. Tables and Calculations ..	52
iv. Roadmaking	52
v. Railways and Tramways: Permanent Way and Working	52
vi. Hydraulics. Hydraulic Engineering. Harbours. River and Canal Engineering	58
vii. Irrigation	55
viii. Shore Protection. Land Reclamation	55
ix. Hydraulic Motors	56
x. Pumps	56
xi. Water Supply	56
xii. Water Purification	57
xiii. Municipal Engineering: Sanitary Science and Plumbing	57
xiv. Illumination	59
xv. Heating and Ventilating Buildings	60
xvi. Refuse Disposal	60

BUILDING CONSTRUCTION.

i. General	61
ii. Estimates, Quantities, Supervision, Repairs ..	62
iii. Building Law. Arbitration	63
iv. Building Materials	64
v. Carpentry, Woodwork and Allied Trades	64
vi. Cob and Pisé Work	65
vii. Bricks and Tiles, Artificial and Masonry Stone ..	65
viii. Cement. Concrete	66
ix. Re-inforced Concrete	66
x. Iron and Steel Construction	67
xi. Miscellaneous	68
xii. Town Planning	68
xiii. House Decoration, Paints etc.	68

NAVAL ARCHITECTURE AND SHIPBUILDING.

i. General	70
ii. Miscellaneous	71

MECHANICAL ENGINEERING.

i. General	72
ii. Power Transmission, Gearing	73
iii. Compressed Air Power Transmission	74
iv. Lubrication	74
v. Lifting and Conveying ..	74
vi. Foundry Work.	74
vii. Machine Tools	75
viii. Wood Working Machinery	77
ix. Welding, etc.	77
x. Sheet Metal Work	77
xi. Metals:	
a. Forging	77
b. Coating	78
c. Gold and Silversmith's Work	78
xii. Horology	78
xiii. Motor Car Engineering ..	79
xiv. Motor Cycles	80
xv. Heat Engines and Steam Engines: Design, Construction, Testing, etc.	81
xvi. Refrigeration	82
xvii. Stationary and Portable Steam Engines	82
xviii. Locomotive Engineering	83
xix. Valves and Valve Gearing	83
xx. Steam Boilers: Construction and Management ..	84
xxi. Marine Engines	85
xxii. Internal Combustion Engines	87
xxiii. Turbines: Steam and Gas	89
xxiv. Engineering Reference Books & Miscellaneous	89

AERONAUTICS.

i. Historical and General ..	91
ii. Theory and Practice of Flight	92
iii. Design and Construction	93
iv. Airscrews and Aerofoils ..	93
v. Aero Engines	94
vi. Aerial Navigation	94
vii. Reference Books for Aviators	94
viii. Balloons, Dirigibles, etc	95

PHYSICS.

i. Collected Works and Historical	96
ii. General Works	96
a. Heat	99
b. Thermodynamics	99
c. High Temperatures	99

Contents.

d. Gases	100	b. Physical Chemistry	127
e. Light	100	c. Colloids	128
f. Physiological Optics and Optical Instruments	101	d. Catalysis	128
g. Colour: Spectra ..	102	e. Ferments	128
h. Sound	102	f. Electrolysis	128
i. Properties of Matter ..	103	vi. Inorganic Chemistry ..	129
j. Molecular Physics. . .	103	vii. Laboratory Work and Arts	130
iii. Relativity	104	viii. Organic Chemistry ..	130
iv. Current in Gases .. .	104	ix. Analytical Chemistry:	
v. X-Rays and Radio-Act- ivity	104	a. General	132
vi. Magnetism and Electric- ity	106	b. Qualitative Analysis	133
		c. Quantitative Analy- sis	133
		d. Volumetric Analysis	134
		x. Biological and Physiolog- ical Chemistry	134
		xi. Plant Constituents ..	135
ELECTRICAL ENGINEERING.		APPLIED AND INDUSTRIAL CHEMISTRY.	
i. General Treatises .. .	109	i. General, including Chem- ical Engineering	138
ii. Electric Generation: • Power Plant	111	ii. Water	137
iii. Switchboards and Acces- sories	111	iii. Fermentation. Brewing. Alcohol	137
iv. Electric Generators and Motors: General	111	iv. Sugar and its Manufacture	138
v. Continuous Current, and Machinery	112	v. Cocoa and Chocolate ..	139
vi. Alternating Current, and Machinery	112	vi. Foods. Flour, and Bread making, etc.	139
vii. Transformers	113	vii. Glues, Agglutinants, Case- in, etc.	139
viii. Transmission	114	viii. Drugs and Disinfectants ..	139
ix. Testing	114	ix. Oils, Fats, Waxes, Soap Manufacture. Margarine	139
x. Electrical Measurements and Instruments	115	x. Pigments, Paints, Varn- ishes, Resins, etc. ..	141
xi. Induction Coils and Bat- teries	115	xi. Rubber, Gutta Percha, etc.	142
xii. Electric Wiring and Fit- ting	116	xii. Fuels. Smoke Prevention, etc.	142
xiii. Electric Light and Illum- ination	116	xiii. Liquid Fuels and their Use	143
xiv. Electric Bells	117	xiv. Producer Gas. Acetylene	143
xv. Electric Traction	117	xv. Petroleum and Mineral Oils	143
xvi. Electrical Application to the Motor Car	118	xvi. Coal. Briquetting, etc.	144
xvii. Electro-Plating	118	xvii. Gas Manufacture: Coal Tar and its Products	145
xviii. Electric Welding	119	xviii. Chemistry and Analysis of Gas	146
xix. Telephony and Telegraphy	119	xix. Distribution of Gas ..	146
xx. Wireless Telegraphy and Telephony	120	xx. Peat	146
		xxi. Dyestuffs and Dyeing ..	146
CHEMISTRY.		xxii. Ink Manufacture	148
i. History	122	xxiii. Paper Making	148
ii. General	122	xxiv. Leather Manufacture and Tanning	148
iii. Organic and Inorganic, for Medical Students	124		
iv. Calculations and Refer- ence Books	125		
v. Theoretical and Physical: a. Theoretical	126		

Contents.

xxv.	Glass, Pottery and Ceramics	149
xxvi.	Explosives and their Manufacture	150
xxvii.	Acids, Alkalies, Salt, etc.	150
xxviii.	Utilisation of Waste Products; Wood Products	151
xxix.	Miscellaneous Chemical Manufactures	151

METALLURGY.

i.	General and Miscellaneous	153
ii.	Iron and Steel	153
iii.	Non-Ferrous Metals and Alloys	154
iv.	Electro-Metallurgy ..	155
v.	Analysis and Assaying ..	156
vi.	Metallography	156
vii.	Heat Treatment of Metals	155
viii.	Foundry Work	157

MILITARY SCIENCE AND ENGINEERING. .. 158

ASTRONOMY.

i.	Historical and Biographical	159
ii.	General and Comprehensive Treatises	159
iii.	The Moon	160
iv.	Solar and Stellar	160
v.	Astronomical Atlases ..	161

METEOROLOGY 162

MINERALOGY.

i.	General	164
ii.	Crystallography	164
iii.	Economic Mineralogy ..	164

GEOLOGY.

i.	General	166
ii.	History	167
iii.	Seismology and Endo-genetic Structures ..	167
iv.	Land Forms and Exo-genetic Structures	167
v.	Petrology	168
vi.	Stratigraphy	168
vii.	Geological Maps	168
viii.	Topographical Geology ..	169
ix.	Economic Geology	169

PALÆONTOLOGY.

i.	General	170
ii.	Palæobotany	170

MINING.

i.	General	171
ii.	Coal Mining	172
iii.	Blasting, Ventilation, and Compressed Air ..	172
iv.	Electricity applied to Mining	173
v.	Mining for Gold, Diamonds, etc.	173
vi.	Ore Dressing	174

GEOGRAPHY.

i.	Teaching of Geography ..	175
ii.	Historical Geography ..	175
iii.	Physiography	175
iv.	Physical Geography ..	176
v.	Map Work	176
vi.	Commercial and Economic	176
vii.	General: The World ..	177
viii.	„ British Empire ..	178
ix.	Descriptive Regional ..	178
x.	Miscellaneous	179

NAVIGATION AND SEAMANSHIP.

i.	Navigation and Nautical Astronomy	180
ii.	Examination Guides to Navigation and Seamanship	181
iii.	Compass Work	181
iv.	Nautical Tables and Terms	181
v.	Seamanship	182
vi.	Marine Signalling	182
vii.	Charts, Tides, Oceanography	182

BIOLOGY.

i.	General	184
ii.	Nature Study	184
iii.	Natural History	185
iv.	Zoology and Morphology	185
v.	Insects, Spiders, Ticks ..	187
vi.	Other Invertebrates ..	190
vii.	Vertebrates:	
a.	General	191
b.	Fishes	191
c.	Batrachians and Reptiles	192
d.	Birds	192
e.	Mammals	193
viii.	Geographical Distribution	193

Contents.

ix. Evolution, Variation, Heredity, Genetics, Sex, Origin of Life	193	BACTERIOLOGY	229
x. Cytology	196	MEDICINE.	
xi. Microscopy	196	A. Historical, Biographical, etc.	231
xiii. Anthropology	197	B. Hygiene, Public Health, Medical Jurisprudence, Toxicology.	
BOTANY.		i. Hygiene	232
i. General	198	ii. Public Health	234
ii. Morphology, Physiology, etc.	201	iii. Water Analysis	234
iii. Geographic Distribution	203	iv. Food Analysis and Inspection	235
iv. Algæ	203	v. Epidemics, Medical Geography, and Climatology	236
v. Fungi	204	vi. Tropical Hygiene	236
vi. Ferns and Mosses	204	vii. Sanitary Law	237
vii. Flora	205	viii. Medical Jurisprudence ..	237
FORESTRY	208	ix. Toxicology	238
AGRICULTURE.		C. Pathology.	
i. General	211	i. Pathological Anatomy, Histology, Laboratory Methods	239
ii. Botany, including Poisonous Plants, Plant Diseases and Pests	212	ii. Examination of the Urine	239
iii. Chemistry	213	iii. Post Mortem Examination	239
iv. Geology	214	iv. General Pathology	239
v. Zoology	214	v. Special Pathology	240
vi. Bacteriology	214	vi. Hæmatology	241
vii. Economics	214	D. Practice of Medicine.	
viii. Engineering	215	i. General Treatises	241
ix. History	215	ii. Clinical Medicine and Diagnosis	243
x. Animal Husbandry:		iii. Infectious Diseases:	
a. Dairying	215	a. General Fevers	244
b. Livestock	216	b. General Infectious Diseases	245
c. Nutrition	217	c. Beri-beri	245
xi. Field Crops	218	d. Cerebro-Spinal Fever	245
xiii. Soils and Fertilisers ..	220	e. Cholera	245
ANATOMY.		f. Diphtheria	245
i. General: Practical, Surgical	221	g. Dysentery, Malarial Diseases	245
ii. Embryology	222	h. Plague	246
iii. Histology	223	i. Small-Pox	246
iv. Osteology; Neurology; Glands	223	j. Tetanus	246
v. Surface Anatomy	224	k. Typhoid Fever	246
vi. Artistic Anatomy	224	l. Venereal Diseases; Syphilis; Gonorrhea ..	246
vii. Comparative Anatomy ..	224	m. Yellow Fever	248
PHYSIOLOGY.		iv. Diseases due to Parasites	248
i. General and Practical ..	225	v. Constitutional Diseases:	
ii. Chemical Physiology ..	227	a. Cancer	248
iii. Nerves; Brain; Special Senses	227	b. Rheumatism; Gout	249
iv. Secretions; Muscles; Electro Physiology	227		
v. Sexual Physiology, etc.	228		

Contents.

vi. Tuberculosis	249
vii. Diseases of the Nervous System:	
a. General, including Alcoholism	251
b. Diseases of the Brain and Spinal Cord	252
c. Neurasthenia and other Special Disorders of the Nervous System	252
d. Nervous Disorders caused by war	252
e. Mental Disorders, Insanity, Psychiatry	253
viii. Diseases of the Blood, Lymphatics, and Glands	254
ix. Diseases of the Heart and Circulatory System	254
x. Diseases of the Respiratory System	255
xi. Diseases of the Digestive System and of the Stomach	256
xii. Diseases of the Liver and Gall Bladder	256
xiii. Diseases of the Intestines	257
xiv. Diseases of the Rectum and Peritoneum	257
xv. Diseases of the Genito-Urinary System	257
xvi. Diseases of the Kidneys	257
xvii. Diseases of the Bladder	258
xviii. Diseases of the Abdomen	258
xix. Tropical Medicine	258
xx. Occupational Diseases	259

SURGERY.

i. General Treatises	260
ii. Operative Surgery	261
iii. Diagnosis (including X-Ray Diagnosis)	262
iv. Surgical Therapeutics and Pathology	262
v. Anaesthetics	262
vi. Asepsis and Antisepsis	263
vii. Nursing	263
viii. Fractures	263
ix. Minor Surgery; Bandaging; Emergencies	263
x. War Surgery: Gunshot Wounds	264
xi. Regional Surgery:	
a. Head and Neck	265
b. Lungs and Heart	265
c. Abdomen	265
d. Amputations	266

e. Genito-Urinary Organs	266
xii. Surgical Diseases:	
a. Hernia	266
b. Tumours	267
c. Diseases of the Locomotive System	267
xiii. Orthopaedic Surgery	267
xiv. Deformities and their Surgical Treatment	268

OPHTHALMOLOGY.

i. General Treatises and Operative Ophthalmology	269
ii. Examination of the Eye: Ophthalmoscopy	270
iii. Diseases of the Conjunctiva	270
iv. Diseases of the Lens: Cataract	270
v. Diseases of the Optic Nerve	270
vi. Paralysis of the Eye	271
vii. Wounds and Injuries	271
viii. Glaucoma	271
ix. Colour Blindness	271
x. Refraction and Optical Defects	271
xi. Therapeutics, Spectacles, etc.	271

OTOLOGY, RHINOLOGY, LARYNGOLOGY.

i. General Treatises	273
ii. Diseases of the Ear	273
iii. Diseases of the Nose	274
iv. Diseases of the Throat	274

GYNÆCOLOGY, OBSTETRICS, etc.

i. Diseases of Women	275
ii. Gynæcology:	
a. Pathology	275
b. General	275
c. Diagnosis, Operations, Therapeutics	276
d. Disorders, Diseases	276
e. Cancer of the Breast	276
iii. Obstetrics:	
a. General: Labour	276
b. Midwifery	277
c. Popular	278

Contents.

DISEASES AND HYGIENE OF CHILDREN.	TEXTILES.
i. General: Nutrition, etc. 279	i. Historical and Economic 297
ii. Diagnosis; Diseases; Treatment 280	ii. Raw Materials 297
DENTISTRY.	iii. Spinning and Doubling:
i. General 282	a. Cotton 297
ii. Anatomy and Physiology 282	b. Woollen and Worsted 298
iii. Medicine and Diseases 282	c. Jute, Flax, Silk 298
iv. Operative Dentistry 282	iv. Weaving and Sizing 298
v. Mechanical and Metallurgy 283	v. Dyeing and Printing 299
vi. Materia Medica and Therapeutics 283	vi. Bleaching and Finishing 299
DERMATOLOGY (SKIN DISEASES) 284	vii. Designing, Testing, Research 300
THERAPEUTICS.	viii. General Manufacture 300
i. General Treatises 285	ix. Textile Machinery 301
ii. Prescribing 286	x. Calculations, Reference Books, etc. 301
iii. Dietetics 286	xi. Lace, Embroidery, etc. 302
iv. Mineral Waters 287	xii. Boot and Shoe Manufacture 302
v. Massage and Movement Cures 287	xiii. Leather Work 302
vi. Serum Therapy and Immunisation 287	GRAPHIC ARTS.
vii. Vaccination: Salvarsan 288	i. Printing, and its Allied Branches 304
viii. Tuberculin 288	ii. The Book and Bookbinding 305
ix. Climaterotherapy, etc. 289	iii. Paper and Stationery 305
x. X-Rays, Radium, Thermotherapy 289	iv. Miscellaneous 305
xi. Electro-Therapy 289	PHOTOGRAPHY.
xii. Psycho-Therapeutics: Hypnotism 290	i. Photography 307
PHARMACY AND MATERIA MEDICA.	ii. Photo-Micrography 308
i. General 291	iii. Cinematography 309
ii. Pharmacopœias 291	SCIENTIFIC MANAGEMENT, etc.
iii. Materia Medica 292	i. Scientific and Works Management 310
iv. Pharmacology 292	ii. Industrial Organisation 310
NURSING.	iii. Estimating and Costing 311
General and Medical 294	DICTIONARIES OF TECHNICAL TERMS IN ENGLISH AND OTHER LANGUAGES 312
VETERINARY.	LIST OF PUBLISHERS 315
i. Physiology and Anatomy 295	INDEX OF AUTHORS, COLLABORATORS, AND TRANSLATORS 319
ii. Medicine and Surgery 295	INDEX OF SUBJECTS 365
iii. Therapeutics, Toxicology, etc. 296	
iv. General 296	

BIBLIOGRAPHICAL DETAILS.

Books that are out of print are not given, but where a new edition is in course of preparation, it is so mentioned.

Where no edition is mentioned, the title refers to the first, as the only edition. A further edition generally means that the text of the book has been revised and brought up to the date given.

An "impression" is a reprint of the original, or last edition, without alteration.

Difficulty arises in some instances as to the date given. Certain publishers give the date of the reprint of a book and not that of the original publication; but all the dates given in this Catalogue are those of books obtainable when the Catalogue went to Press.

Where two dates are given, that in parenthesis is the date of the last edition, the following date being the year the same edition was reprinted.

Some important books appear to be old, but in various cases essentials do not alter.

The sizes of books are designated in the usual way, and a list is given below of the equivalent measurement in inches.

With very few exceptions, all books are bound in cloth covers.

The number of pages given to each book generally includes the prefatory matter.

SIZES OF BOOKS.

The following are the approximate sizes in inches:—

Pott. 8vo. . . .	$6\frac{1}{4} \times 4$	Pott. 4to. . . .	$7\frac{3}{4} \times 6\frac{1}{4}$
Fcap. 8vo. . . .	$6\frac{3}{4} \times 4\frac{1}{2}$	Fcap. 4to. . . .	$8\frac{1}{2} \times 6\frac{3}{4}$
Gl. 8vo.	$7 \times 4\frac{3}{4}$		
Cr. 8vo.	$7\frac{1}{2} \times 5$	Cr. 4to.	$10 \times 7\frac{1}{2}$
Post 8vo.	8×5	Post 4to.	10×8
Demy 8vo. . . .	$8\frac{3}{4} \times 5\frac{1}{2}$	Demy 4to. . . .	$11\frac{1}{4} \times 8\frac{3}{4}$
(also known as "8vo.")			
Med. 8vo.	$9\frac{1}{2} \times 6$	Med. 4to.	$12 \times 9\frac{1}{2}$
Roy. 8vo.	$10 \times 6\frac{1}{4}$	Roy. 4to.	$12\frac{1}{2} \times 10$
Super. Roy. 8vo.	$10\frac{1}{4} \times 7$	Super Roy. 4to.	$13\frac{3}{4} \times 10\frac{1}{4}$
Imp. 8vo.	$11 \times 7\frac{1}{2}$	Imp. 4to.	15×11

SCIENCE IN GENERAL.

I. GENERAL AND POPULAR SCIENCE.

- Alliotta, A.** *The Idealistic Reaction Against Science.* Translated by A. McCaskill. 8vo. Pp. 496. 1914. Macmillan. 15s.
- Allbutt, Sir T. C.** *Science and Medieval Thought.* Harveian Oration. 1900. Cr. 8vo. Pp. 116. 1901. Cambridge University Press. 3s. 6d.
- Amos, S.** *Science of Law.* 9th edn. Cr. 8vo. Pp. 437. 1909. Kegan Paul. 7s. 6d.
- Armstrong, H. E.** *The Teaching of Scientific Method and other Papers on Education.* 2nd edn. Cr. 8vo. Pp. 531. 1910. Macmillan. 6s. 6d.
- Briggs, W.** (edited by). *General Elementary Science.* 3rd edn. 10th imp. Cr. 8vo. Pp. 412. 1920. 5s. Key, 2s. 3d. University Tutorial Press.
- Clough, W. T. and Dunstan, A. E.** *Elementary Science for Pupil Teachers. Physics and Chemistry.* Cr. 8vo. Pp. 191. 1907. Methuen. 3s. 6d.
- *Elementary Experimental Science. Physics and Chemistry.* 18th edn. Cr. 8vo. Pp. 266. 1919. Methuen. 4s.
- Co-ordination of Scientific Publication, The.** Faraday Society Report. 1918. Demy 8vo. Pp. 30. 1918. Faraday Society. 3s.
- Darwin, Sir G. H.** *Scientific Papers.* 5 vols. Roy. 8vo. Cambridge University Press.
- Vol. 1.—*Oceanic Tides and Lunar Disturbance of Gravity.* Pp. 477. 1907. 20s. Vol. 2.—*Tidal Friction and Cosmogony.* Pp. 532. 1908. 20s. Vol. 3.—*Figures of Equilibrium of Rotating Liquid and Geophysical Investigations.* Pp. 542. 1910. 20s. Vol. 4.—*Periodic Orbits and Miscellaneous Papers.* Pp. 609. 1911. 20s. Vol. 5.—*Memoirs by Sir F. Darwin and E. W. Brown, Lectures on Mill's Lunar Theory, etc.* Pp. 137. 1916. 10s.
- Dearle, N. B.** *Industrial Training: with special reference to the Conditions prevailing in London.* Demy 8vo. Pp. 609. 1914. King. 10s. 6d.
- Donnan, F. G.** (Translated by). *International Language and Science. Considerations on the Introduction of an International Language into Science.* Demy 8vo. Pp. 95. 1910. Constable. 2s.
- Dunn, J. T., and Mundella, V. A.** *General Elementary Science. An Introductory Course for Students in Schools and Technical Colleges.* 2nd edn. Cr. 8vo. Pp. 333. 1905. Methuen. 5s.
- Fairweather, W. C.** *Foreign and Colonial Patent Laws.* Demy 8vo. Pp. 291. 1910. Constable. 10s. 6d.
- Gibson, C. R.** *Scientific Ideas of To-Day.* Cr. 8vo. Pp. 342. 1920. Seeley. 7s. 6d.
- Glazebrook, Sir R. T.** *Science and Industry.* Rede Lecture 1917. Cr. 8vo. Pp. 51. 1917. Cambridge University Press. 1s. 6d.
- Gregory, Sir R. A.** *Discovery; or, The Spirit and Service of Science.* Cr. 8vo. Pp. 347. 1918. Macmillan. 7s. 6d.
- Griffiths, E. D.** *Housecraft Science.* Cr. 8vo. Pp. 192. 1917. Methuen. 3s. 6d.
- Hodson, F.** (edited by). *Broad Lines in Science Teaching.* 2nd edn. Demy 8vo. Pp. 267. 1911. Christophers. 6s.

Science in General

- Huxley, T. H.** *Science and Education*. Gl. 8vo. Pp. 451. Macmillan. 6s.
 — *Science and Hebrew Tradition*. Gl. 8vo. Pp. 372. Macmillan. 6s.
 — *Science and Christian Tradition*. Gl. 8vo. Pp. 419. Macmillan. 6s.
 — *Method and Results*. Gl. 8vo. Pp. 430. Macmillan. 6s.
- Illingworth, S. R.** *The Co-operation of Science and Industry*. Pocket size. Pp. 91. 1914. Griffin. 1s. 6d.
- Joly, N.** *Man before Metals*. 6th edn. Cr. 8vo. Pp. 372. 1904. Kegan Paul. 7s. 6d.
- Lodge, Sir O. J.** *Life and Matter*. 2nd edn. Cr. 8vo. Pp. 200. 1912. Williams and Norgate. 2s. 6d.
- Mivart, St. G.** *The Groundwork of Science. A Study of Epistemology*. Large Cr. 8vo. Pp. 331. 1895. Murray. 7s. 6d.
- Moulton, Lord.** *Science and War*. Rede Lecture 1919. Cr. 8vo. Pp. 60. 1919. Cambridge University Press. 2s. 6d.
- Peddle, R. A.** *Engineering and Metallurgical Books 1907—1911*. British and American. Cr. 8vo. Pp. 216. 1912. Grafton. 7s. 6d.
- Poincaré, H.** *Science and Method*. Translated by F. Maitland. Large Cr. 8vo. Pp. 288. N.D. Nelson. 6s.
- Rignano, E.** *Essays in Scientific Synthesis*. Translated by W. J. Greenstreet. Demy 8vo. Pp. 254. 1918. Allen and Unwin. 8s. 6d.
- Seward, A. C.** (edited by). *Science and the Nation*. Essays by Cambridge Graduates. Cr. 8vo. Pp. 350. 1917. Cambridge University Press. 5s.
- Soddy, F.** *Science and Life*. Aberdeen Addresses. Demy 8vo. Pp. 241. 1920. Murray. 10s. 6d.
- Strong, T. B.** (edited by). *Lectures on the Method of Science*, delivered in Oxford, 1905, at the request of the Delegates for the Extension of University Teaching. 8vo. Pp. 250. 1906. Oxford: Clarendon Press. 7s. 6d.
- Swan, K. R.** *The Law and Commercial Usage of Patents, Designs and Trade Marks*. Ex. Cr. 8vo. Pp. 402. 1908. Constable. 7s. 6d.
- Thomson, J. A.** *The Introduction to Science*. Fcap. 8vo. Pp. 256. 1911. Williams and Norgate. 2s. 6d.
 — *The System of Animate Nature*. The Gifford Lectures 1915-1916. 2 vols. Demy 8vo. Pp. 699. 1920. Williams and Norgate. 30s.
- Turnbull, A.** (edited by). *The Life of Matter: An Inquiry and Adventure*. Demy 8vo. Pp. 324. 1919. Williams & Norgate. 7s. 6d.
- Westaway, F. W.** *Science and Theology. Their Common Aims and Methods*. Roy. 8vo. Pp. 359. 1920. Blackie. 15s.
 — *Scientific Method: its Philosophy and its Practice*. New edn. Super Cr. 8vo. Pp. 426. 1919. Blackie. 10s. 6d.
- Whitehead, A. N.** *The Organisation of Thought, Educational and Scientific*. New imp. in preparation. Williams & Norgate.
- Year Book of the Scientific and Learned Societies of Great Britain and Ireland.** *A Record of the Work done in Science, Literature and Art during the Session 1919—1920*, by numerous Societies and Government Institutions, compiled from Official Sources. 37th Annual Issue. Demy 8vo. Pp. 362. Jan., 1921. Griffin, 15s.

ii. BIOGRAPHIES OF MEN OF SCIENCE, etc.

- Bower, F. O.** *Joseph Dalton Hooker (Pioneers of Progress)*. Cr. 8vo. Pp. 64. 1919. S.P.C.K. 2s.
- Bridges, J. H.** *The Life and Work of Roger Bacon*. Cr. 8vo. Pp. 174. 1914. Williams & Norgate. 3s.
- Bryant, W. W.** *Galileo. (Pioneers of Progress)*. Cr. 8vo. Pp. 64. 1918. S.P.C.K. 2s.
- Crowther, J. A.** *Michael Faraday. (Pioneers of Progress)*. Cr. 8vo. Pp. 64. 1918. S.P.C.K. 2s.

Science in General

- Darwin, Sir F.** (edited by). Charles Darwin: His Life told in an Autobiographical Chapter, and in a selected Series of his Published Letters. 2nd edn. Cr. 8vo. Pp. 348. 1908. Murray. 7s. 6d.
- Davis, A. Thomas H. Huxley.** Small Cr. 8vo. Pp. 288. Dent. 3s. 6d.
- Duncan, D.** The Life and Letters of Herbert Spencer. Demy 8vo. Pp. 621. 1911. Williams & Norgate. 6s.
- Forbes, G.** Memories of Sir David Gill, Man and Astronomer. Demy 8vo. Pp. 418. 1916. Murray. 12s.
- Fox, R. H.** William Hunter: Anatomist, Physician, Obstetrician (1718—1783). 8vo. Pp. 83. 1901. Lewis. 4s. 6d.
- Godlee, Sir R. J.** A Review of the Life and Work of John Hunter. Demy 8vo. Pp. 48. 1913. Bale & Danielsson. 2s. 6d.
- Gray, A.** Lord Kelvin. Small Cr. 8vo. Pp. 317. Dent. 3s. 6d.
- Heath, Sir T. L.** Archimedes. (Pioneers of Progress). Cr. 8vo. Pp. 64. 1920. S.P.C.K. 2s.
- Hogben, L. T.** Alfred Russel Wallace. The Story of a Great Discoverer. (Pioneers of Progress). Cr. 8vo. Pp. 64. 1918. S.P.C.K. 2s.
- Hooker, Sir J. D.** A Sketch of the Life and Labour of Sir William Hooker. Roy. 8vo. Pp. 90. 1903. Oxford: Clarendon Press. Paper Cover. 3s. 6d.
- Huxley, L.** The Life and Letters of Sir Joseph Hooker. 2 vols. Demy 8vo. Pp. 546., 569. 1918. Murray. 36s.
- Life and Letters of T. H. Huxley. 3 vols. Gl. 8vo. Macmillan. 18s.
- Jackson, B. D.** George Bentham. Small Cr. 8vo. Pp. 292. Dent. 3s. 6d.
- Koenigsberger, L.** Hermann von Helmholtz. Translated by F. A. Welby. 8vo. Pp. 458. 1906. Oxford: Clarendon Press. 16s.
- Leupp, F. E.** George Westinghouse: His Life and Achievements. Demy 8vo. Pp. 315. 1919. Murray. 15s.
- Little, A. G.** (edited by). Roger Bacon. Essays on the occasion of the commemoration of the Seventh Centenary of his birth. 8vo. Pp. 434. 1914. Oxford: Clarendon Press. 16s.
- Lodge, Sir O. J.** Pioneers of Science. Cr. 8vo. Pp. 404. 1893. Macmillan. 6s.
- Lyddeker, R.** Sir William H. Flower. Small Cr. 8vo. Pp. 189. Dent. 3s. 6d.
- Macpherson, H.** Herschel. (Pioneers of Progress). Cr. 8vo. Pp. 80. 1919. S.P.C.K. 2s.
- Miall, L. C.** The Early Naturalists: Their Lives and Work (1530—1789). 8vo. Pp. 408. 1912. Macmillan. 10s.
- Millington, J. P.** John Dalton. Small Cr. 8vo. Pp. 224. Dent. 3s. 6d.
- Mottelay, P. F.** The Life and Work of Sir Hiram S. Maxim. Cr. 8vo. Pp. 258. 1920. Lane. 7s. 6d.
- Peacock, D. H.** Joseph Priestley. (Pioneers of Progress). Cr. 8vo. Pp. 64. 1919. S.P.C.K. 2s.
- Pearson, K.** The Life, Letters, and Labours of Francis Galton. Vol. I. 1822—1853. Cr. 4to. Pp. 258. 1914. Cambridge University Press. 30s.
- Ramsay, Sir W.** Life and Letters of Joseph Black, M.D. Demy 8vo. Pp. 160. 1918. Constable. 6s. 6d.
- Schuster, Sir A., and Shipley, Sir A. E.** Britain's Heritage of Science. 2nd edn. Pp. 349. 1920. Constable. 14s.
- Smiles, S.** Lives of the Engineers; from the Earliest Period to the Death of the Stephensons. 5 vols. Cr. 8vo. 1904.
- Brindley, Vermuyden, Myddleton, Perry—Early Engineers.** Pp. 380.

Science in General

- Smeaton and Rennie**—Harbours, Lighthouses, and Bridges. Pp. 459.
- Metcalf and Telford**—History of Roads. Pp. 412.
- Boulton and Watt**—The Steam Engine. Pp. 481.
- George and Robert Stephenson**—The Locomotive. Pp. 466.
- Murray**. 5s. each.
- **Men of Invention and Industry**. 7th imp. Cr. 8vo. Pp. 370. 1901. Murray. 5s.
- **Industrial Biography: Iron-workers and Tool-makers**. Cr. 8vo. Pp. 353. 1901. Murray. 5s.
- Tatlow, J.** Fifty Years of Railway Life. Demy 8vo. Pp. 223. 1920. Transport, Ltd. 10s.
- Thompson, J. S. and H. G.** Silvanus Phillips Thompson. His Life and Letters. Demy 8vo. Pp. 372. 1920. Fisher Unwin. 21s.
- Thomson, J. A.** Herbert Spencer. Small Cr. 8vo. Pp. 284. Dent. 3s. 6d.
- Thorpe, Sir T. E.** Joseph Priestley. Small Cr. 8vo. Pp. 228. Dent. 3s. 6d.
- Turner, A. L.** Sir William Turner. Professor of Anatomy, and Principal and Vice-Chancellor of the University of Edinburgh. A Chapter in Medical History. Demy 8vo. Pp. 531. 1919. Blackwood. 18s.
- Tyndall, J.** Faraday as a Discoverer. 5th edn. Cr. 8vo. Pp. 208. 1894. Longmans. 4s.
- Vallery-Radot, R.** The Life of Pasteur. Demy 8vo. Pp. 505. 1919. Constable. 10s. 6d.
- III. HISTORY OF SCIENCE—**
EDUCATION—LEARNING,
COMMERCE, etc.
- Adamson, J. W.** A Short History of Education. Demy 8vo. Pp. 370. 1919. Cambridge University Press. 12s. 6d.
- **Pioneers of Modern Education in the Seventeenth Century**. Cr. 8vo. Pp. 307. 1905. Cambridge University Press. 6s.
- Albee, E.** A History of English Utilitarianism. Med. 8vo. Pp. 427. 1902. Allen and Unwin. 12s. 6d.
- Avebury, Lord.** A Short History of Coins and Currency. Fcap. 8vo. Pp. 138. 1903. Murray. 2s. 6d.
- Barnard, F. P.** The Casting-Counter and the Counting-Board. A Chapter in the History of Numismatics and Early Arithmetic. Demy 4to. Pp. 358. 1917. Oxford: Clarendon Press. 63s.
- Benn, A. W.** The History of English Rationalism in the Nineteenth Century. 2 Vols. 8vo. Pp. 478., 546. 1906. Longmans. 22s. 6d.
- Comp  yr  , G.** The History of Pedagogy. Translated, with Introduction, Notes, and Index by W. H. Payne. 9th edn. Cr. 8vo. Pp. 598. 1918. Allen and Unwin. 7s. 6d.
- Cressy, E.** Discoveries and Inventions of the Twentieth Century. 8vo. Pp. 416. 1915. Routledge. 10s. 6d.
- Critchell, J. T., and Raymond, J.** History of the Frozen Meat Trade. Demy 8vo. Pp. 460. 1912. Constable. 12s. 6d.
- De Montmorency, J. E. G.** State Intervention in English Education. A Short History from the Earliest Times to 1833. Cr. 8vo. Pp. 398. 1902. Cambridge University Press. 7s. 6d.
- Draper, J. W.** History of the Conflict between Religion and Science. 25th edn. Cr. 8vo. Pp. 395. 1910. Kegan Paul. 7s. 6d.
- **A History of the Intellectual Development of Europe**. 2 Vols. Small Post 8vo. Pp. 438. 1914. Bell. 12s.
- Fletcher, Sir B. F.** A History of Architecture on the Comparative Method. 5th edn. Demy 8vo. Pp. 788. 1920. Batsford. 25s.
- Gardner, P.** A History of Ancient Coinage. 700—300 B.C. 8vo. Pp. 480. 1918. Oxford: Clarendon Press. 18s.

Science in General

- Kerr, J.** *Scottish Education, School and University, from Early Times to 1908. With an Addendum, 1908—1913.* Demy 8vo. Pp. 458. 1913. Cambridge University Press. 4s. 6d.
- Kirkup, T.** *A History of Socialism.* 5th edn, revised and edited by E. R. Pease. Cr. 8vo. Pp. 490. 1913. Black. 7s. 6d.
- Laurie, S. S.** *Studies in the History of Educational Opinion from the Renaissance.* New Imp. Cr. 8vo. Pp. 267. 1905. Cambridge University Press. 7s. 6d.
- Leach, A. F.** *Educational Charters and Documents, 598 to 1099.* Cr. 8vo. Pp. 582. 1909. Cambridge University Press. 12s. 6d.
- Leonard, E. M.** *The Early History of English Poor Relief.* Demy 8vo. Pp. 418. 1900. Cambridge University Press. 10s.
- Lewes, G. H.** *A Biographical History of Philosophy from Thales to Comte.* 8vo. Pp. 656. 1911. Routledge. 6s.
- Libby, W.** *An Introduction to the History of Science.* Cr. 8vo. Pp. 288. 1918. Harrap. 6s.
- Mark, H. T.** *An Outline of the History of Educational Theories in England.* 2nd edn. Cr. 8vo. Pp. 139. 1906. Allen and Unwin. 3s.
- Merz, J. T.** *A History of European Thought in the Nineteenth Century.* 4 Vols. Post 8vo. Vol. 1. 3rd imp. Pp. 472. 1907. 10s. 6d. Vol. 2. 2nd imp. Pp. 820. 1912. 15s. Vol. 3. Pp. 639. 1912. 15s. Vol. 4. Pp. 847. 1914. 20s. Blackwood.
- Page, W.** (edited by). *Commerce and Industry.* 2 Vols. Imp. 8vo. 1919. Vol. 1. *A Historical Review of the Economic Conditions of the British Empire from the Peace of Paris in 1815 to the Declaration of War in 1914, based on Parliamentary Debates.* Pp. 508. 32s. Vol. 2. *Tables of Statistics for the British Empire from 1815.* Pp. 259. 24s. Constable.
- Simpson, F. M.** *A History of Architectural Development.* 3 Vols. 8vo. Vol. 1. New imp. in preparation. 16s. Vol. 2. Pp. 420. 1913. 12s. 6d. Vol. 3. Pp. 376. 1913. 12s. 6d. Longmans.
- Thomson, J. A.** *Progress of Science in the Century.* Cr. 8vo. Pp. 536. 1908. Chambers. 5s.
- Webb, S. and B.** *The History of Trade Unionism.* Revised Edition, extended to 1920. 8vo. Pp. 802. 1920. Longmans. 21s.
- Wood, Sir H. T.** *A History of the Royal Society of Arts.* Med. 8vo. Pp. 558. 1913. Murray. 15s.
- Woodward, W. H.** *Studies in Education during the Age of the Renaissance, 1400-1600.* Cr. 8vo. Pp. 356. 1906. Cambridge University Press. 6s.

PHILOSOPHY

I. GENERAL AND HISTORICAL.

- Adam, J.** *The Vitality of Platonism and other Essays.* Demy 8vo. Pp. 250. 1911. Cambridge University Press. 9s.
- Adam, Mrs. J.** *Plato: Moral and Political Ideals.* Roy. 16mo. Pp. 164. 1913. Cambridge University Press. 2s. 6d.
- Adamson, R.** *The Development of Greek Philosophy*, edited by W. R. Sorley and R. P. Hardie. Demy 8vo. Pp. 337. 1911. Blackwood. 10s. 6d.
- Arnold, E. V.** *Roman Stoicism.* Demy 8vo. Pp. 480. 1911. Cambridge University Press. 12s. 6d.
- Beare, J. I.** *Greek Theories of Elementary Cognition from Alcmaeon to Aristotle.* 8vo. Pp. 362. 1906. Oxford: Clarendon Press. 12s. 6d.
- Benn, A. W.** *The Greek Philosophers.* 2nd edn. Demy 8vo. Pp. 619. 1914. Murray. 21s.
- *History of Ancient Philosophy.* Cr. 8vo. Pp. 160. Watts. 3s. 6d.
- *History of Modern Philosophy.* Cr. 8vo. Pp. 160. Watts. 3s. 6d.
- Bevan, J. O.** *Handbook of the History and Development of Philosophy.* Cr. 8vo. Pp. 241. 1916. Chapman and Hall. 5s.
- Donar, J.** *Philosophy and Political Economy in some of Their Historical Relations.* 2nd edn. Med. 8vo. 0. 1909. Allen and Unwin.
- E.** *Historical Studies in Greek Philosophy.* Part Plato. 2nd imp. 1920. Macmillan.
- Philosophy.** 3rd edn. 8vo. Pp. 30s.
- Burns, C. D.** *The Growth of Modern Philosophy.* Cr. 8vo. Pp. 270. N.D. Sampson, Low. 6s.
- Crozier, J. B.** *History of Intellectual Development on the lines of Modern Evolution.* 8vo. Vol. 1. Pp. 564. 1912. 14s. Vol. 3. Pp. 360. 1901. 10s. 6d. Longmans.
- Dewey, J.** *Reconstruction in Philosophy.* Cr. 8vo. Pp. 230. 1921. University of London Press. 7s. 6d.
- De Wulf, M.** *History of Mediaeval Philosophy.* 8vo. Pp. 500. 1909. Longmans. 11s.
- Douglas, A. H.** *The Philosophy and Psychology of Pietro Pomponazzi.* Demy 8vo. Pp. 328. 1910. Cambridge University Press. 7s. 6d.
- Douglas, C.** *The Ethics of John Stuart Mill.* Post 8vo. Pp. 360. 1897. Blackwood. 6s.
- *John Stuart Mill: A Study of His Philosophy.* Cr. 8vo. Pp. 289. 1895. Blackwood. 4s. 6d.
- Erdmann, J. E.** *The History of Philosophy.* Translated and Edited by W. S. Hough. 3 Vols. Med. 8vo. Vol. 1. *Ancient and Mediaeval Philosophy.* 4th edn. Pp. 719. 1915. Vol. 2. *Modern Philosophy.* 6th edn. Pp. 719. 1915. Vol. 3. *Modern Philosophy since Hegel.* 5th edn. Pp. 356. 1913. Allen and Unwin. 15s. each Vol.
- Figgis, J. N.** *Studies of Political Thought from Gerson to Grotius. 1414-1625.* 2nd edn. Cr. 8vo. Pp. 266. 1916. Cambridge University Press. 6s.
- Flint, R.** *Philosophy as Scientia Scientiarum. A History of Classifications of the Sciences.* Pp. 350. 1904. Blackwood. 10s. 6d.
- *Historical Philosophy in France and French Belgium and Switzerland.* 8vo. Pp. 734. 1893. Blackwood. 21s.

Philosophy

- Fraser, A. C.** *Biographia Philosophica*. Demy 8vo. Pp. 349. 1904. Blackwood. 6s.
- Gomperz, T.** *Greek Thinkers: a History of Ancient Philosophy*. Demy 8vo. 4 Vols. Vol. 1. *The Beginnings. From Metaphysics to Positive Science. The Age of Enlightenment*. Translated by L. Magnus. Pp. 610. 1906. Vol. 2. *Socrates and the Socratics*. Plato. Translated by G. G. Berry. Vol. 3. *Plato*. Translated by G. G. Berry. Vol. 4. *Aristotle and His Successors*. Translated by G. G. Berry. Murray. 18s. each.
- Hobhouse, L. T.** *Development and Purpose. An Essay towards A Philosophy of Evolution*. 8vo. Pp. 405. 1913. Macmillan. 12s. 6d.
- Hoffding, H.** *A History of Modern Philosophy. A Sketch of the History of Philosophy from the close of the Renaissance to our own day*. Translated by B. E. Meyer. 2 Vols. 8vo. Pp. 550., 610. 1915. Macmillan. 18s. each.
- *A Brief History of Modern Philosophy*. Translated by C. F. Sanders. Cr. 8vo. Pp. 336. 1919. Macmillan. 12s.
- *The Problems of Philosophy*. Translated by G. M. Fisher and a Preface by W. James. Gl. 8vo. Pp. 220. 1913. Macmillan. 7s.
- *The Philosophy of Religion*. Translated by B. E. Meyer. 8vo. Pp. 408. 1914. Macmillan. 15s.
- *Modern Philosophers: Lectures; and Lectures on Bergson*. Translated by A. C. Mason. Cr. 8vo. Pp. 332. 1915. Macmillan. 6s. 6d.
- Janet, P. and Séailles, G.** *A History of the Problems of Philosophy*. Translated by A. Monahan. Edited by H. Jones. 2 Vols. Demy 8vo. 1902. Vol. 1. *Psychology*. Pp. 420. Vol. 2. *Physics, Metaphysics, Theodicy*. Pp. 390. Macmillan. 10s. each Vol.
- Keary, C. F.** *The Pursuit of Reason*. Demy 8vo. Pp. 464. 1910. Cambridge University Press. 10s.
- Kelvin, Lord. and Tait, P. G.** *Elements of Natural Philosophy*. 2nd edn. Demy 8vo. Pp. 299. 1912. Cambridge University Press. 12s.
- *A Treatise on Natural Philosophy*. Demy 8vo. Part 1. Pp. 515. 1912. 20s. Part 2. Pp. 552. 1905. 20s. Cambridge University Press.
- Külpe, O.** *The Philosophy of the Present in Germany*. Translated by M. Lyall and G. T. W. Patrick. Cr. 8vo. Pp. 256. 1913. Allen and Unwin. 5s.
- *Introduction to Philosophy: A Handbook for Students of Psychology, Logic, Ethics, Aesthetics, and General Philosophy*. Translated by W. B. Pillsbury and E. B. Titchener. 4th edn. Demy 8vo. Pp. 256. 1915. Allen and Unwin. 6s.
- Lindsay, J. A.** *A Philosophical System of Theistic Idealism*. Demy 8vo. Pp. 543. 1917. Blackwood. 15s.
- *Studies in European Philosophy*. Demy 8vo. Pp. 391. 1909. Blackwood. 10s. 6d.
- Lloyd, A. H.** *The Will to Doubt: An Essay in Philosophy for the General Thinker*. Cr. 8vo. Pp. 285. 1907. Allen and Unwin. 5s.
- Mayor, J. B.** *A Sketch of Ancient Philosophy from Thales to Cicero*. 5th imp. Fcap. 8vo. Pp. 269. 1912. Cambridge University Press. 4s. 6d.
- Mercier, Cardinal.** *Manual of Modern Scholastic Philosophy*. Translated by T. L. and S. A. Parker. 2nd edn. 2 Vols. 8vo. Pp. 600., 567. 1919. Kegan Paul. 12s. 6d. per Vol.
- Merz, J. T.** *A Fragment on the Human Mind*. Demy 8vo. Pp. 324. 1910. Blackwood. 12s. 6d.
- Pringle-Pattison, A. S.** *Scottish Philosophy. A Comparison of the Scottish and German Answers to Hume*. 4th edn. Cr. 8vo. Pp. 238. 1907. Blackwood. 5s.
- Radhakrishnan, S.** *The Reign of Religion in Contemporary Philosophy*. Demy 8vo. Pp. 475. 1920. Macmillan. 12s.

Philosophy

- Rappoport, S.** *Primer of Philosophy*. Fcap. 8vo. Pp. 118. 1916. Murray. 1s. 6d.
- Ritchie, D. G.** *Natural Rights: A Criticism of Some Political and Ethical Conceptions*. 3rd edn. Med. 8vo. Pp. 304. 1916. Allen and Unwin. 12s. 6d.
- *Studies in Political and Social Ethics*. Cr. 8vo. Pp. 238. 1908. Allen and Unwin. 5s.
- Robertson, J. M.** *A Short History of Freethought*. 2 Vols. Demy 8vo. Pp. 1,043. Watts. 15s.
- *A Short History of Morals*. Demy 8vo. Pp. 460. 1920. Watts. 18s.
- Ruggiero, G. De.** *Modern Philosophy*. Translated from the Italian by A. H. Hannay and R. G. Collingwood. Demy 8vo. Pp. 402. 1921. Allen and Unwin. 16s.
- Salter, W. M.** *First Steps in Philosophy—Physical and Ethical*. 2nd edn. Cr. 8vo. Pp. 143. Allen and Unwin 3s. 6d.
- Seth, J.** *English Philosophers and School of Philosophy*. Large Cr. 8vo. Pp. 372. Dent. 7s. 6d.
- Sidgwick, H.** *Philosophy: Its Scope and Relations*. 8vo. Pp. 270. 1902. Macmillan. 8s.
- Sorley, W. R.** *A History of English Philosophy*. Demy 8vo. Pp. 396. 1920. Cambridge University Press. 20s.
- Stace, W. T.** *A Critical History of Greek Philosophy*. Cr. 8vo. Pp. 400. 1920. Macmillan. 7s. 6d.
- Stephen, D. J.** *Studies in Early Indian Thought*. Cr. 8vo. Pp. 183. 1918. Cambridge University Press. 6s.
- Stephen, Sir L.** *A History of English Thought in the Eighteenth Century*. 2 Vols. Demy 8vo. Pp. 466., 469. 1902. Murray. 28s.
- Stewart, H. L.** *Questions of the Day in Philosophy and Psychology*. Demy 8vo. Pp. 296. 1912. Arnold. 10s. 6d.
- Stockl, A.** *Handbook of the History of Philosophy*. 8vo. Pp. 452. 1911. Longmans. 10s. 6d.
- Thomson, J. A. K.** *The Greek Tradition: Essays in the Reconstruction of Ancient Thought*. Cr. 8vo. Pp. 224. 1915. Allen and Unwin. 6s.
- Walker, L. J.** *Theories of Knowledge, Absolutism, Pragmatism, Realism*. 2nd edn. Cr. 8vo. Pp. 746. 1919. Longmans. 11s.
- Webb, C. C. J.** *History of Philosophy*. Fcap. 8vo. Pp. 256. 1919. Williams and Norgate. 2s. 6d.
- Weber, A.** *History of Philosophy*. Translated by F. Thilly. 8vo. Pp. 642. 1919. Longmans. 16s.
- Whitehead, A. N.** *An Enquiry Concerning the Principles of Natural Knowledge*. Demy 8vo. Pp. 212. 1919. Cambridge University Press. 14s.
- *The Concept of Nature: Tarnier Lectures delivered in Trinity College, November, 1919*. Demy 8vo. Pp. 212. 1920. Cambridge University Press. 14s.
- Whittaker, F.** *The Neo-Platonists*. 2nd edn., with Supplement on the Commentaries of Proclus. Demy 8vo. Pp. 334. 1914. Cambridge University Press. 14s.
- Zeller, E.** *Outlines of the History of Greek Philosophy*. Translated by S. F. Alleyne and E. Abbott. Cr. 8vo. Pp. 380. 1914. Longmans. 12s.

ii. METAPHYSICS.

- Alexander, S.** *Space, Time and Deity (Gifford Lectures, 1916-1918)*. 2 Vols. 8vo. Pp. 362., 450. 1920. Macmillan. 36s.
- Arnold, R. B.** *Scientific Fact and Metaphysical Reality*. 8vo. Pp. 384. 1904. Macmillan. 10s.
- Aveling, F.** *On the Consciousness of the Universal and the Individual. A Contribution to the Phenomenology of the Thought Processes*. Cr. 8vo. Pp. 265. 1912. Macmillan. 5s.

Philosophy

- Baldwin, J. M.** *Thought and Things: A Study of the Development and Meaning of Thought, or Genetic Logic.* 3 Vols. Med. 8vo. Vol. 1. *Functional Logic, or Genetic Theory of Knowledge.* Pp. 273. 1906. Vol. 2. *Experimental Logic, or Genetic Theory of Thought.* Pp. 436. 1908. Vol. 3. *Interest and Art, being Real Logic.* Pp. 284. 1911. Allen and Unwin. 12s. 6d. each.
- Balsillie, D.** *An Examination of Professor Bergson's Philosophy.* Cr. 8vo. Pp. 228. 1912. Williams and Norgate. 5s.
- Bergson, H.** *Matter and Memory.* Translated by N. M. Paul and W. S. Palmer. 3rd edn. Med. 8vo. Pp. 339. 1919. Allen and Unwin. 12s. 6d.
- *Time and Free Will: An Essay on the Immediate Data of Consciousness.* Translated by F. L. Pogson. 3rd edn. Med. 8vo. Pp. 252. 1913. Allen and Unwin. 12s. 6d.
- *Creative Evolution.* Translated by A. Mitchell. 6th imp. 8vo. Pp. 440. 1920. Macmillan. 12s. 6d.
- *Mind Energy: Lectures and Essays.* Translated by H. W. Carr. Demy 8vo. Pp. 222. 1920. Macmillan. 10s.
- Bosanquet, B.** *The Philosophical Theory of the State.* 3rd edn. Demy 8vo. Pp. 382. 1920. Macmillan. 15s.
- *The Value and Destiny of the Individual (Gifford Lectures for 1912).* 8vo. Pp. 363. 1913. Macmillan. 12s. 6d.
- *Implication and Linear Inference.* Cr. 8vo. Pp. 190. 1920. Macmillan. 7s. 6d.
- Bradley, F. H.** *Essays on Truth and Reality.* 8vo. Pp. 496. 1914. Oxford: Clarendon Press. 12s. 6d.
- *Appearance and Reality: A Metaphysical Essay.* 6th imp. Med. 8vo. Pp. 628. 1916. Allen and Unwin. 12s. 6d.
- Broad, C. D.** *Perception, Physics, and Reality. An enquiry into the information that Physical Science can supply about the Real.* Demy 8vo. Pp. 400. 1914. Cambridge University Press. 12s.
- Bury, J. B.** *The Idea of Progress. An Inquiry into its Origin and Growth.* 8vo. Pp. 393. 1920. Macmillan. 14s.
- Caldwell, W.** *Pragmatism and Idealism.* Demy 8vo. Pp. 268. 1913. Black. 7s. 6d.
- Carr, H. W.** *The Philosophy of Change. A Study of the Fundamental Principle of the Philosophy of Bergson.* 8vo. Pp. 228. 1914. Macmillan. 7s. 6d.
- *The Philosophy of Benedetto Croce: The Problem of Art and History.* 8vo. Pp. 225. 1917. Macmillan. 7s. 6d.
- Croce, B.** *What Is Living and What is Dead of the Philosophy of Hegel.* Translated by D. Ainslie. 8vo. Pp. 235. 1915. Macmillan. 10s.
- Deussen, P.** *Elements of Metaphysics. A Guide for Lectures and Private Use.* Translated by C. M. Duff. 2nd imp. Cr. 8vo. Pp. 362. 1909. Macmillan. 7s.
- Driesch, H.** *The Problem of Individuality.* 8vo. Pp. 94. 1914. Macmillan. 4s. 6d.
- *The History and Theory of Vitalism.* Translated by C. K. Ogden. Cr. 8vo. Pp. 247. 1914. Macmillan. 6s. 6d.
- *The Science and Philosophy of the Organism. The Gifford Lectures, 1907-1908.* 2 Vols. Demy 8vo. Pp. 329., 381. 1908. Black. 10s. 6d. each.
- Fuller, B. A. G.** *The Problem of Evil in Plotinus.* Cr. 8vo. Pp. 356. 1912. Cambridge University Press. 7s. 6d.
- Gibson, J.** *Locke's Theory of Knowledge and Its Historical Relations.* Demy 8vo. Pp. 352. 1917. Cambridge University Press. 10s. 6d.
- Gibson, W. R. B.** *Rudolf Eucken's Philosophy of Life.* 3rd edn. Cr. 8vo. Pp. 188. 1915. Black. 4s. 6d.

Philosophy

- Gibson, W. R. B.** Rudolf Eucken's The Meaning and Value of Life. 4th imp. Cr. 8vo. Pp. 155. 1916. Black. 4s. 6d.
- Gunn, J. A.** Bergson and His Philosophy. Cr. 8vo. Pp. 212. 1920. Methuen. 6s.
- Haldane, E. S., and Ross, G. R. T.** The Philosophical Works of Descartes. Rendered into English. 2 Vols. Demy 8vo. Vol. 1. Pp. 462. 1911. 12s. 6d. Vol. 2. Pp. 388. 1912. 14s. Cambridge University Press.
- Hartmann, E.** Philosophy of the Unconscious. Translated by W. C. Coupland. 2nd edn. 3 Vols. Post 8vo. Pp. 404., 374., 368. 1903. Kegan Paul. 37s. 6d.
- Hegel, G. W. F.** The Phenomenology of Mind. Translated, with an Introduction and Notes, by J. B. Baillie. 2 Vols. Demy 8vo. Pp. 823. 1907. Allen and Unwin. 25s.
- Hobhouse, L. T.** Mind in Evolution. 2nd edn. 8vo. Pp. 500. 1915. Macmillan. 12s. 6d.
- The Theory of Knowledge. A Contribution to some problems of Logic and Metaphysics. 2nd edn. Demy 8vo. Pp. 647. 1896. Methuen. 15s.
- Morals in Evolution: A Study in Comparative Ethics. 3rd edn. Demy 8vo. Pp. 664. 1915. Chapman and Hall. 10s. 6d.
- Holt, E. B.** The Concept of Consciousness. Demy 8vo. Pp. 343. 1914. Allen and Unwin. 12s. 6d.
- Huxley, T. H.** Hume, with Helps to the Study of Berkeley. Gl. 8vo. Pp. 320. Macmillan. 6s.
- Jevons, F. B.** Philosophy: what is it? 2nd edn. Cr. 8vo. Pp. 142. 1920. Cambridge University Press. 4s.
- Kitchin, D. B.** Bergson for Beginners: A Summary of His Philosophy. 2nd edn. Cr. 8vo. Pp. 809. 1914. Allen and Unwin. 6s.
- Lossky, N. O.** The Intuitive Basis of Knowledge. An Epistemological Enquiry. Translated by N. A. Duddington. 8vo. Pp. 450. 1919. Macmillan. 16s.
- Mackenzie, J. S.** Outlines of Metaphysics. 2nd edn. New imp. Cf. 8vo. Pp. 191. 1916. Macmillan. 5s.
- Elements of Constructive Philosophy. 2nd imp. Demy 8vo. Pp. 487. 1919. Allen and Unwin. 15s.
- McTaggart, J. McT. E.** The Nature of Existence. Vol. 1. Roy. 8vo. Pp. 331. 1921. Cambridge University Press. 22s. 6d.
- A Commentary on Hegel's Logic. Demy 8vo. Pp. 328. 1910. Cambridge University Press. 12s.
- Studies in Hegelian Cosmology. 2nd edn. Demy 8vo. Pp. 312. 1918. Cambridge University Press. 8s.
- Studies in the Hegelian Dialectic. Demy 8vo. Pp. 275. 1896. Cambridge University Press. 8s.
- Pearson, N.** Some Problems of Existence. Demy 8vo. Pp. 176. 1907. Arnold. 7s. 6d.
- Richardson, C. A.** Spiritual Pluralism and Recent Philosophy. Demy 8vo. Pp. 358. 1919. Cambridge University Press. 14s.
- Rickaby, J.** First Principles of Knowledge. Cr. 8vo. Pp. 428. 1919. Longmans. 8s.
- General Metaphysics. New edn. Cr. 8vo. 1921. Longmans. 8s.
- Ruhe, A., and Paul, N. M.** Henri Bergson: An Account of his life and philosophy. Ex. Cr. 8vo. Pp. 253. 1914. Macmillan. 6s. 6d.
- Russell, B.** A Critical Exposition of the Philosophy of Leibniz. Demy 8vo. Pp. 327. 1900. Cambridge University Press. 9s.
- Introduction to Mathematical Philosophy. Demy 8vo. Pp. 208. 1919. Allen and Unwin. 10s. 6d.
- Slessor, H. H.** The Nature of Being. An Essay in Ontology. Demy 8vo. Pp. 224. 1919. Allen and Unwin. 10s. 6d.

- Spencer, H.** *The Principles of Biology.* 2 Vols. 8vo. Williams and Norgate. 18s. each Vol.
- *First Principles (A System of Synthetic Philosophy).* 8vo. Williams and Norgate. 5s.
- * **Stebbing, L. S.** *Pragmatism and French Voluntarism.* Cr. 8vo. Pp. 180. 1914. Cambridge University Press. 2s. 6d.
- Stewart, J. M'K.** *A Critical Exposition of Bergson's Philosophy.* 2nd edn. 8vo. Pp. 305. 1913. Macmillan. 6s. 6d.
- Taylor, A. E.** *Elements of Metaphysics.* 5th edn. Demy 8vo. Pp. 436. 1920. Methuen. 12s. 6d.
- Varisco, B.** *The Great Problems.* Translated by R. C. Lodge. Med. 8vo. Pp. 370. 1914. Allen and Unwin. 12s. 6d.
- Ward, J.** *The Realm of Ends, or Pluralism and Theism.* Gifford Lectures, 1907-10. 2nd edn., with some replies to criticisms. Demy 8vo. Pp. 506. 1913. Cambridge University Press. 21s.
- Westermarck, E.** *The Origin and Development of the Moral Ideas.* 2nd edn. 2 Vols. 8vo. Pp. 740., 884. 1912. Macmillan. 14s. each Vol.
- Widgery, A. G.** *Rudolf Eucken's Life's Basis and Life's Ideals. The Fundamentals of a New Philosophy of Life.* 2nd edn. Demy 8vo. Pp. 337. 1918. Black. 10s. 6d.
- Williams, M. V.** *Six Essays on the Platonic Theory of Knowledge.* Cr. 8vo. Pp. 142. 1908. Cambridge University Press. 3s.
- Wodehouse, H.** *The Presentation of Reality.* Cr. 8vo. Pp. 174. 1910. Cambridge University Press. 3s.
- Croce, B.** *Philosophy of the Practical. Economic and Ethic.* Translated by D. Ainslie. 8vo. Pp. 628. 1913. Macmillan. 14s.
- D'Arcy, C. F.** *A Short Study of Ethics.* 2nd edn. Cr. 8vo. Pp. 305. 1912. Macmillan. 6s. 6d.
- Duprat, L.** *Morals: The Psycho-Sociological Bases of Ethics.* Translated from the French by W. J. Greenstreet. Cr. 8vo. Scott Pub. Co. 7s. 6d.
- Johnston, G. A.** *An Introduction to Ethics for Training Colleges.* Cr. 8vo. Pp. 264. 1915. Macmillan. 3s. 6d.
- Jones, E. E. C.** *A Primer of Ethics.* Fcap. 8vo. Pp. 101. 1909. Murray. 1s. 6d.
- Mackenzie, J. S.** *Lectures on Humanism, with Special reference to its Bearings on Sociology.* Cr. 8vo. Pp. 243. 1907. Allen and Unwin. 5s.
- *A Manual of Ethics.* 5th edn. 11th imp. Cr. 8vo. Pp. 512. 1919. University Tutorial Press. 9s. 6d.
- *Outlines of Social Philosophy.* Demy 8vo. Pp. 280. 1918. Allen and Unwin. 10s. 6d.
- Moore, G. E.** *Ethics.* Fcap. 8vo. Pp. 256. 1912. Williams and Norgate. 2s. 6d.
- Muirhead, J. H.** *Chapters from Aristotle's Ethics.* Cr. 8vo. Pp. 319. 1900. Murray. 9s.
- * — *The Elements of Ethics.* Cr. 8vo. Pp. 296. 1919. Murray. 4s. 6d.
- *German Philosophy in Relation to the War.* Cr. 8vo. Pp. 110. 1917. Murray. 4s. 6d.
- Rickaby, J.** *Moral Philosophy, Ethics and Natural Law.* 4th edn. Cr. 8vo. Pp. 396. 1921. Longmans. 8s.
- Rogers, R. A. P.** *A Short History of Ethics—Greek and Modern.* 2nd imp. Cr. 8vo. Pp. 325. 1918. Macmillan. 4s. 6d.

iii. ETHICS.

- Benett, W.** *Justice and Happiness.* 8vo. Pp. 140. 1911. Oxford: Clarendon Press. 3s. 6d.
- Bosanquet, B.** *Some Suggestions in Ethics.* 2nd edn. Cr. 8vo. Pp. 262. 1919. Macmillan. 6s.

- Ryland, F.** *Ethics: An Introductory Manual for the Use of University Students.* 3rd edn. Cr. 8vo. Pp. 220. 1914. Bell. 3s. 6d.
- Schopenhauer, A.** *The Basis of Morality.* Translated by A. B. Bullock. 2nd edn. Cr. 8vo. Pp. 288. 1915. Allen and Unwin. 5s.
- Seth, J.** *A Study of Ethical Principles.* 14th edn. Post 8vo. Pp. 491. 1918. Blackwood. 8s. 6d.
- Sidgwick, H.** *Outlines of the History of Ethics for English Readers.* 5th edn. New imp. Cr. 8vo. Pp. 254. 1915. Macmillan. 4s.
- *The Methods of Ethics.* 7th edn. 8vo. Pp. 556. 1913. Macmillan. 10s. 6d.
- *Practical Ethics: A Collection of Addresses and Essays.* 2nd edn. Cr. 8vo. Pp. 260. 1909. Allen and Unwin. 5s.
- Sorley, W. R.** *Recent Tendencies in Ethics.* Cr. 8vo. Pp. 146. 1904. Blackwood. 2s. 6d.
- *The Ethics of Naturalism.* 2nd edn. Cr. 8vo. Pp. 352. 1904. Blackwood. 6s.
- *The Moral Life and Moral Worth.* Roy. 16mo. Pp. 147. 1911. Cambridge University Press. 2s. 6d.
- *Moral Values and the Idea of God.* Gifford Lectures, 1914-15. 2nd edn. Demy 8vo. Pp. 554. 1921. Cambridge University Press. 22s. 6d.
- Spencer, H.** *The Principles of Ethics.* Vol. 1. Pt. 1. *The Data of Ethics*; Pt. 2. *The Inductions of Ethics*; Pt. 3. *The Ethics of Individual Life.* 8vo. 15s. Vol. 2. Pt. 4. *Justice*; Pt. 5. *Negative Beneficence*; Pt. 6. *Positive Beneficence.* 8vo. 12s. 6d. Williams and Norgate.
- Taylor, A. E.** *The Problem of Conduct. A Study in the Phenomenology of Ethics.* 8vo. Pp. 509. 1901. Macmillan. 12s. 6d.
- Urwick, E. J.** *A Philosophy of Social Progress.* 2nd edn. Cr. 8vo. Pp. 254. 1920. Methuen. 7s. 6d.
- Walston, Sir C.** *Truth. An Essay in Moral Reconstruction.* Cr. 8vo. Pp. 248. 1919. Cambridge University Press. 5s.
- Ward, S.** *The Ways of Life: A Study in Ethics.* Cr. 8vo. Pp. 126. 1920. Oxford University Press. 6s. 6d.
- Whittaker, T.** *The Theory of Abstract Ethics.* Cr. 8vo. Pp. 136. 1916. Cambridge University Press. 4s. 6d.
- Wundt, W. M.** *Ethics.* 3 Vols. Demy 8vo. Vol. 1. *Introduction: The Facts of the Moral Life.* Translated by J. H. Gulliver and E. B. Titchener. 3rd edn. Pp. 339. 1908. Vol. 2. *Ethical Systems: The Development of Moral Theories of the Universe.* Translated by M. F. Washburn. 3rd edn. Pp. 196. 1917. Vol. 3. *Principles of Morality.* Translated by M. F. Washburn. Pp. 308. 1914. Allen and Unwin. 7s. 6d. each.

iv. AESTHETICS.

- Bosanquet, B.** *Three Lectures on Aesthetic.* Ex. Cr. 8vo. Pp. 128. 1915. Macmillan. 4s. 6d.
- *The History of Aesthetic.* 4th edn. Med. 8vo. Pp. 502. 1917. Allen and Unwin. 12s. 6d.
- Clay, F.** *The Origin of the Sense of Beauty.* Large Post 8vo. Pp. 302. 1908. Murray. 7s. 6d.
- Cook, Sir T. A.** *The Curves of Life. An Account of Spiral Formations and their Application to Growth in Nature, to Science, and to Art.* Roy. 8vo. Pp. 502. 1914. Constable. 12s. 6d.
- Croce, B.** *Aesthetic as Science of Expression and General Linguistic.* Translated from the Italian by D. Ainslie. 8vo. Pp. 436. 1909. Macmillan. 12s. 6d.
- Knight, W.** *The Philosophy of the Beautiful.* 2 Parts. Cr. 8vo. Vol. 1. Pp. 288. 1916. Vol. 2. Pp. 281. 1914. Murray. 4s. 6d. each.

Philosophy

- Lee, V.** *The Beautiful*. Roy. 16mo. Pp. 166. 1913. Cambridge University Press. 2s. 6d.
- Rand, B.** *Shaftesbury's Second Characters, or the Language of Forms*. Demy 8vo. Pp. 210. 1914. Cambridge University Press. 9s.
- Sweet, H.** *The History of Language*. 5th edn. Post 8vo. Pp. 148. 1920. Dent. 1s. 9d.
- Tucker, T. G.** *Introduction to the Natural History of Language*. Demy 8vo. Pp. 465. 1908. Blackie. 10s. 6d.
- Türk, H.** *The Man of Genius*. Translated by G. J. Tamson. Demy 8vo. Pp. 483. 1914. Black. 12s. 6d.
- Whitney, W. D.** *Life and Growth of Language*. 7th edn. Cr. 8vo. Pp. 336. 1902. Kegan Paul. 7s. 6d.
- v. LOGIC.**
- Adamson, R.** *A Short History of Logic*. Edited by W. R. Sorley. Cr. 8vo. Pp. 276. 1911. Blackwood. 7s. 6d.
- Bain, A.** *Logic*. 2 Pts. 3rd edn. Part 1. Deduction. Pp. 300. 1910. 5s. 6d. Part 2. Induction. Pp. 466. 1912. 7s. 6d. Longmans.
- Bartlett, F. C.** *Exercises in Logic*. Cr. 8vo. Pp. 156. 1913. 4s. Key. Pp. 142. 1914. 3s. University Tutorial Press.
- Bosanquet, B.** *Essentials of Logic*. 8th imp. Cr. 8vo. Pp. 177. 1920. Macmillan. 4s.
- Clarke, R. F.** *Logic*. New edn. Cr. 8vo. 1921. Longmans. 8s.
- Coffey, P.** *The Science of Logic: an Inquiry into the Principles of Accurate Thought and Scientific Method*. 2 Vols. 2nd imp. 8vo. 1918. Vol. 1. Conception, Judgment, and Inference. Pp. 466. 10s. Vol. 2. Method, Science, and Certitude. Pp. 368. 10s. Longmans.
- Croce, B.** *Logic as the Science of the Pure Concept*. Translated by D. Ainslie. 8vo. Pp. 640. 1917. Macmillan. 14s. .
- Gibson, W. R. B., and Klein, A.** *The Problem of Logic*. Demy 8vo. Pp. 500. 1914. Black. 15s.
- Holman, H., and Irvine, M. C. W.** *Questions on Logic with Illustrative Examples*. 6th imp. Cr. 8vo. Pp. 130. 1916. 4s. Key. 4th imp. Pp. 121. 1914. 3s. University Tutorial Press.
- Jevons, W. S.** *Elementary Lessons in Logic, Deductive and Inductive*. New imp. Pott. 8vo. Pp. 352. 1920. Macmillan. 4s.
- *Pure Logic: and other Minor Works*. Edited by R. Adamson and H. A. Jevons. 8vo. Pp. 314. 1890. Macmillan. 10s. 6d.
- *The Principles of Science: Treatise on Logic and Scientific Method*. New imp. 8vo. Pp. 830. 1920. Macmillan. 12s. 6d.
- *Studies in Deductive Logic*. 2nd edn. Cr. 8vo. Pp. 332. 1908. Macmillan. 7s.
- Jones, E. E. C.** *A New Law of Thought and its Logical Bearings*. Cr. 8vo. Pp. 86. 1911. Cambridge University Press. 3s. 6d.
- *A Primer of Logic*. Fcap. 8vo. Pp. 188. 1913. Murray. 2s.
- Keynes, J. N.** *Studies and Exercises in Formal Logic, including a generalization of Logical processes in their application to complex inferences*. 4th edn. 8vo. Pp. 572. 1906. Macmillan. 12s. 6d.
- Mellone, S. H.** *An Introductory Text-book of Logic*. 11th edn. Cr. 8vo. Pp. 414. 1919. Blackwood. 7s. 6d.
- Mill, J. S.** *A System of Logic*. Cr. 8vo. Pp. 638. 1919. Longmans. 7s. 6d.
- Minto, W.** *Logic, Inductive and Deductive*. 9th imp. Cr. 8vo. Pp. 373. 1915. Murray. 5s.
- Read, C.** *Logic. Deductive and Inductive*. 4th edn. Cr. 8vo. Pp. 433. 1920. Simpkin, Marshall. 7s. 6d.

- Russell, B.** *Mysticism and Logic, and other Essays.* 3rd imp. 8vo. Pp. 342. 1919. Longmans. 8s. 6d.
- Russell, L. J.** *An Introduction to Logic: from the Standpoint of Education.* Cr. 8vo. Pp. 150. 1921. Macmillan. 3s. 6d.
- Schiller, F. C. S.** *Formal Logic: A Scientific and Social Problem.* 8vo. Pp. 441. 1912. Macmillan. 10s.
- Sidgwick, A.** *The Application of Logic.* Cr. 8vo. Pp. 332. 1910. Macmillan. 6s. 6d.
- *Fallacies: a View of Logic from the Practical Side.* 3rd edn. Cr. 8vo. Pp. 391. 1901. Kegan Paul. 7s. 6d.
- *Elementary Logic.* Cr. 8vo. Pp. 260. 1914. Cambridge University Press. 4s.
- Sturt, H.** *The Principles of Understanding. An Introduction to Logic from the standpoint of Personal Idealism.* Cr. 8vo. Pp. 313. 1915. Cambridge University Press. 7s.
- Venn, J.** *The Principles of Empirical or Inductive Logic.* 2nd edn. 8vo. Pp. 624. 1907. Macmillan. 18s.
- *Symbolic Logic.* 2nd edn. Cr. 8vo. Pp. 578. 1894. Macmillan. 12s. 6d.
- Venn, J.** *The Logic of Chance.* 3rd. edn. Cr. 8vo. Pp. 540. 1888. Macmillan. 12s. 6d.
- Welton, J.** *A Manual of Logic.* 2 vols. Cr. 8vo. Vol. 1. *Deductive Logic.* 2nd edn. 5th imp. Pp. 457. 1912. 10s. 6d. Vol. 2. *Fallacies, Deductive and Inductive.* 6th imp. Pp. 330. 1916. 8s. 6d. University Tutorial Press.
- *Groundwork of Logic.* 2nd imp. Cr. 8vo. Pp. 368. 1920. University Tutorial Press. 5s.
- **and Monahan, A. J.** *Intermediate Logic.* 4th imp. Cr. 8vo. Pp. 530. 1920. University Tutorial Press. 10s. 6d.
- Windelband, W., and Ruge, A.** (edited by). *Encyclopædia of the Philosophical Sciences.* Vol. 1. *Logic.* By various Authors. Translated by B. E. Meyer. 8vo. Pp. 280. 1913. Macmillan. 10s.
- Wolf, A.** *Exercises in Logic and Scientific Method.* Fcap 8vo. Pp. 78. 1919. Allen and Unwin. 3s.
- *The Existential Import of Categorical Prediction.* *Studies in Logic.* Cr. 8vo. Pp. 176. 1905. Cambridge University Press. 4s.

PSYCHOLOGY.

i. GENERAL AND HISTORICAL.

- Bain, A.** *Mind and Body: the Theories of their Relation.* 11th edn. Cr. 8vo. Pp. 196. 1910. Kegan Paul. 7s. 6d.
- The Senses and the Intellect.* 4th edn. 8vo. Pp. 736. 1894. Longmans. 17s. 6d.
- Mental and Moral Science: A Compendium of Psychology and Ethics.* Cr. 8vo. Pp. 788. 1884. Longmans. 12s.
- The Emotions and the Will.* 4th edn. 8vo. Pp. 638. 1899. Longmans. 17s. 6d.
- Baldwin, J. M.** *History of Psychology.* 2 vols. Cr. 8vo. Pp. 323. 1913. Watts. 7s.
- Ballard, P. B.** *Obliviscence and Reminiscence.* Roy. 8vo. Pp. 40. 1913. Cambridge University Press. 4s.
- Bernstein.** *The Five Senses of Man.* 8th edn. Cr. 8vo. Pp. 321. 1910. Kegan Paul. 7s. 6d.
- Binet, A.** *The Mind and the Brain.* Cr. 8vo. Pp. 292. 1907. Kegan Paul. 7s. 6d.
- Bligh, S. M.** *Applications of Psychology to Everyday Life.* 3 vols. Pott. 8vo. *The Desire for Qualities.* Pp. 344. 1911. 3s. 6d. *The Direction of Desire.* 4th imp. Pp. 372. 1919. 3s. 6d. *The Ability to Converse.* Pp. 340. 1912. 5s. Oxford University Press.
- Brackenbury, L.** *A Primer of Psychology.* Fcap. 8vo. Pp. 139. 1919. Murray. 2s.
- Brett, G. S.** *A History of Psychology—Ancient and Patristic.* Demy 8vo. Pp. 388. 1912. Allen and Unwin. 12s. 6d.
- Bridger, A. E.** *Minds in Distress: A Psychological Study of the Masculine and Feminine Mind in Health and Disorder.* 2nd. edn. Cr. 8vo. Pp. 193. 1913. Methuen. 5s.
- Brunt, D.** *The Combination of Observations.* Demy 8vo. Pp. 230. 1917. Cambridge University Press. 10s.
- Drever, J.** *Instinct in Man: a Contribution to the Psychology of Education.* 2nd edn. Demy 8vo. Pp. 303. 1921. Cambridge University Press. 10s. 6d.,
- Fuller, Sir B.** *The Science of Ourselves.* Demy 8vo. Pp. 338. 1921. Frowde and Hodder. 16s.
- Glover, W.** *Know Your Own Mind. A little book of Practical Psychology.* Fcap. 8vo. Pp. 211. 1914. Cambridge University Press. 3s.
- Granger, F. S.** *Psychology: A Short Account of the Human Mind.* 4th edn. Cr. 8vo. Pp. 243. 1909. Methuen. 5s.
- Hayward, F. H.** *The Psychology of Educational Administration and Criticism.* Cr. 8vo. Pp. 608. Herbert Russell. 7s. 6d.
- Hoffding, H.** *Outlines of Psychology.* Translated by M. E. Lowndes. New imp! Cr. 8vo. Pp. 376. 1912. Macmillan. 7s.
- Jones, A. J.** *Character in the Making.* Cr. 8vo. Pp. 144. 1913. Murray. 2s. 6d.
- Loveday, T., and Green, J. A.** *An Introduction to Psychology, for the use of Students of Education.* 3rd imp. Cr. 8vo. Pp. 272. 1915. Oxford: Clarendon Press. 6s.
- McDougall, W.** *Psychology: the Study of Behaviour.* Fcap. 8vo. Pp. 250. 1920. Williams and Norgate. 2s. 6d.

Psychology

- McDougall, W.** *Body and Mind: A History and a Defence of Animism.* 4th edn. Demy 8vo. Pp. 404. 1911. Methuen. 12s. 6d.
- MacNamara, N. C.** *Instinct and Intelligence.* Cr. 8vo. Pp. 216. 1915. Frowde & Hodder. 7s. 6d.
- Maher, M.** *Psychology, Empirical and Rational.* 9th edn. Cr. 8vo. Pp. 632. 1919. Longmans. 11s.
- McQueen, E. N.** *The Distribution of Attention.* Roy. 8vo. Pp. 150. 1917. Cambridge University Press. 5s.
- Marett, R. R.** *Psychology and Folk Lore.* Cr. 8vo. Pp. 284. 1920. Methuen. 7s. 6d.
- Marshall, H. R.** *Consciousness.* 8vo. Pp. 700. 1909. Macmillan. 17s.
- Maudsley, H.** *Organic to Human: Psychological and Sociological.* 8vo. Pp. 394. 1916. Macmillan. 12s.
- Mellone, S. H.** *Elements of Psychology.* 4th edn. Cr. 8vo. Pp. 503. 1919. Blackwood. 7s. 6d.
- Merrington, E. M.** *The Problem of Personality. A Critical and Constructive Study in the Light of Recent Thought.* Cr. 8vo. Pp. 239. 1916. Macmillan. 6s.
- Mitchell, W.** *Structure and Growth of the Mind.* 8vo. Pp. 548. 1907. Macmillan. 12s. 6d.
- Morgan, C. Lloyd.** *Psychology for Teachers.* 2nd edn. 3rd imp. Cr. 8vo. Pp. 307. 1906. Arnold. 5s.
- *An Introduction to Comparative Psychology.* Cr. 8vo. Scott Pub. Co. 7s. 6d.
- *Instinct and Experience.* 2nd edn. Cr. 8vo. Pp. 318. 1912. Methuen. 6s.
- Parsons, J. H.** *Mind and the Nation: A Précis of Applied Psychology.* Demy 8vo. Pp. 154. 1918. Paper Covers. Bale and Danielsson. 7s. 6d.
- Pearson, N.** *The Soul and Its Story.* Demy 8vo. Pp. 336. 1913. Arnold. 10s. 6d.
- Pillsbury, W. B.** *Attention.* Med. 8vo. Pp. 346. 1908. Allen and Unwin. 12s. 6d.
- Ribot, T.** *The Psychology of the Emotions.* Cr. 8vo. Scott Pub. Co. 7s. 6d.
- Ryland, F.** *Psychology: An Introductory Manual for the use of Students.* 10th edn. Cr. 8vo. Pp. 286. 1908. Bell. 4s. 6d.
- *Questions on Psychology, Metaphysics and Ethics.* Cr. 8vo. Pp. 143. 1887. Allen & Unwin. 3s. 6d.
- Shand, A. F.** *The Foundations of Character: being A Study of the Tendencies of the Emotions and Sentiments.* 2nd edn. 8vo. Pp. 614. 1920. Macmillan. 20s.
- Spencer, H.** *The Principles of Psychology.* 2 vols. 8vo. Williams & Norgate. 36s.
- Stout, G. F.** *The Groundwork of Psychology.* 6th imp. Cr. 8vo. Pp. 256. 1919. University Tutorial Press. 6s. 6d.
- *A Manual of Psychology.* 3rd edn. 8th imp. Cr. 8vo. Pp. 788. 1920. University Tutorial Press. 12s. 6d.
- Strong, C. A.** *The Origin of Consciousness: an Attempt to Conceive the Mind as a Product of Evolution.* 2nd imp. 8vo. Pp. 338. (1918). 1920. Macmillan. 12s.
- Sully, J.** *Outlines of Psychology.* New edn. Cr. 8vo. Pp. 510. 1912. Longmans. 10s. 6d.
- *The Teacher's Handbook of Psychology.* 5th edn. Cr. 8vo. Pp. 626. 1919. Longmans. 7s. 6d.
- *The Human Mind: A Text-book of Psychology.* 2 vols. 8vo. Pp. 520., 406. 1892. Longmans. 21s.
- *My Life and Friends. A Psychologist's Memories.* Demy 8vo. Pp. 344. 1918. Fisher Unwin. 12s. 6d.
- Varisco, B.** *Know Thyself.* Translated by G. Salvadori. Med. 8vo. Pp. 327. 1915. Allen & Unwin. 12s. 6d.

Psychology

- Villa, G.** *Contemporary Psychology*. Translated by H. Manacorda. Med. 8vo. Pp. 396. 1903. Allen & Unwin. 12s. 6d.
- Walker, C. E.** *Hereditary Characters and their Modes of Transmission*. Demy 8vo. Pp. 252. 1910. E. Arnold. 10s.
- Ward, J.** *Psychological Principles*. 2nd edn. Roy. 8vo. Pp. 492. 1920. Cambridge University Press. 26s.
- Watt, H. J.** *The Psychology of Sound*. Roy. 8vo. Pp. 250. 1917. Cambridge University Press. 10s. 6d.
- *The Economy and Training of Memory*. 4th imp. Small Cr. 8vo. Pp. 136. 1915. Arnold. 2s.
- Webb, E.** *Character and Intelligence*. Roy. 8vo. Pp. 109. 1915. Cambridge University Press. 6s. 6d.
- Wingfield-Stratford, E.** *The Reconstruction of Mind. An Open Way of Mind Training*. Cr. 8vo. Pp. 246. 1921. Books, Ltd. 6s.
- Wohlgenuth, A.** *On the After Effect of Seen Movement*. Roy. 8vo. Pp. 126. 1912. Cambridge University Press. 5s.
- *Pleasure—Un-Pleasure: an experimental investigation on the feeling-elements*. Roy. 8vo. Pp. 260. 1919. Cambridge University Press. 14s.
- Wundt, W. M.** *Lectures on Human and Animal Psychology*. Translated by J. E. Creighton and E. B. Titchener. 5th edn. Demy 8vo. Pp. 459. 1912. Allen & Unwin. 10s. 6d.
- *An Introduction to Psychology*. Translated by R. Pintner. Cr. 8vo. Pp. 198. 1912. Allen & Unwin. 4s. 6d.
- ii. EXPERIMENTAL AND PHYSIOLOGICAL PSYCHOLOGY.**
- Baines, A. E.** *The Origin and Problem of Life. A Psycho-Physiological Study*. Cr. 8vo. Pp. 110. 1921. Routledge. 3s. 6d.
- Ballard, P. B.** *Mental Tests*. Cr. 8vo. Pp. 245. 1920. Hodder & Stoughton. 6s.
- Brown, W.** *Psychology and Psychotherapy*. Cr. 8vo. Pp. 208. 1921. Arnold. 8s. 6d.
- and **Thomson, G. H.** *The Essentials of Mental Measurement*. Roy. 8vo. Pp. 226. 1921. Cambridge University Press. 21s.
- Gowers, Sir W. R.** *Subjective Sensations of Sight and Sound Abiotrophy*. 8vo. Pp. 250. 1904. Churchill. 6s.
- Külpe, O.** *Outlines of Psychology: Based upon the Results of Experimental Investigation*. 3rd edn. Demy 8vo. Pp. 460. 1909. Allen & Unwin. 12s. 6d.
- McDougall, W.** *Physiological Psychology*. 5th edn. Pott. 8vo. Pp. 172. 1918. Dent. 1s. 9d.
- Macnaughten-Jones, H.** *Ambidexterity and Mental Culture*. Fcap. 8vo. Pp. 102. 1914. Heinemann. 2s. 6d.
- Mercier, C.** *Criminal Responsibility: from the point of view of Psychology*. 8vo. Pp. 232. 1905. Oxford: Clarendon Press. 10s.
- Muscio, B.** *Lectures on Industrial Psychology*. 2nd edn. Cr. 8vo. Pp. 300. 1920. Routledge. 6s. 6d.
- Myers, C. S.** *An Introduction to Experimental Psychology*. Roy. 16mo. Pp. 168. 1914. Cambridge University Press. 2s. 6d.
- *A Text-book of Experimental Psychology*. 2nd edn. Demy 8vo. 2 Parts. 1911. Part 1. Text-book. Pp. 358. 9s. Part 2. Laboratory Exercises. Pp. 114. 6s. Cambridge University Press. The Two Parts, 13s. 6d.
- Schulze, F.** *Experimental Psychology and Pedagogy, for Teachers, Normal Colleges, and Universities*. Translated by R. Pintner. Demy 8vo. Pp. 364. 1907. Allen & Unwin. 15s.
- Scripture, E. W.** *The New Psychology*. Cr. 8vo. Scott Pub. Co. 7s. 6d.

Psychology

- Storring, G.** *Mental Pathology in its Relation to Normal Psychology.* Translated by T. Loveday. Demy 8vo. Pp. 298. 1907. Allen & Unwin. 10s. 6d.
- Stout, G. F.** *Analytic Psychology.* 2 vols. 4th edn. Med. 8vo. Pp. 289., 314. 1918. Allen & Unwin. 21s.
- Stratton, G. M.** *Theophrastus and the Greek Physiological Psychology before Aristotle.* Demy 8vo. Pp. 227. 1917. Allen & Unwin. 8s. 6d.
- Tansley, A. G.** *The New Psychology and its Relation to Life.* Demy 8vo. Pp. 283. 1920. Allen & Unwin. 10s. 6d.
- Traube, M. R., and Stockbridge, F. P.** *Measure Your Mind. The Mentimeter and How to Use It.* Large Cr. 8vo. Pp. 353. 1920. Harrap. 10s. 6d.
- Valentine, C. W.** *An Introduction to Experimental Psychology, in Relation to Education.* 2nd imp. Cr. 8vo. Pp. 204. 1916. University Tutorial Press. 3s. 6d.
- Weininger, O.** *Sex and Character.* Translated from the German. New imp. Demy 8vo. Pp. 356. 1919. Heinemann. 12s. 6d.
- Wundt, W. M.** *Principles of Physiological Psychology.* Translated by E. B. Titchener. Vol. 1. *The Bodily Substrate of the Mental Life.* 2nd edn. Demy 8vo. Pp. 347. 1910. Allen & Unwin. 12s.
- Ziehen, T.** *Introduction to Physiological Psychology.* Translated by C. C. Van Liew and O. W. Beyer. Cr. 8vo. Pp. 280. 1918. Allen & Unwin. 6s.
- iii. MENTAL DEVELOPMENT AND CHILD STUDY.**
- Bradby, M. K.** *The Logic of the Unconscious Mind.* Demy 8vo. Pp. 330. 1920. Frowde & Hodder. 16s.
- Claparède, E.** *Experimental Pedagogy and the Psychology of the Child.* Translated by M. Louch and H. Holman. 4th edn. Cr. 8vo. Pp. 340. 1911. Arnold. 5s.
- Dell, J. A.** *The Gateways of Knowledge. An Introduction to the Study of the Senses.* Cr. 8vo. Pp. 183. 1912. Cambridge University Press. 3s. 6d.
- Dexter, S. G. F., and Garlick, A. H.** *Psychology in the Schoolroom.* Cr. 8vo. Pp. 425. 1913. Longmans. 5s. 6d.
- Drummond, M.** *The Dawn of Mind. An Introduction to Child Psychology.* Cr. 8vo. Pp. 191. 1918. Arnold. 3s. 6d.
- Drummond, W. B.** *The Child: its Nature and Nurture.* Cr. 8vo. Pp. 223. Dent. 4s.
- *An Introduction to Child Study.* 3rd imp. Cr. 8vo. Pp. 348. 1907. Arnold. 6s.
- Dumville, B.** *Fundamentals of Psychology. A brief account of the Nature and Development of Mental Processes for Teachers.* 3rd imp. Cr. 8vo. Pp. 392. 1917. University Tutorial Press. 6s. 6d.
- *Child Mind: An Introduction to Psychology for Teachers.* Cr. 8vo. Pp. 222. 1919. University Tutorial Press. 4s.
- Keatinge, M. W.** *Suggestion in Education.* 2nd edn. Cr. 8vo. Pp. 205. 1911. Black. 6s.
- Kimmins, C. W.** *Children's Dreams.* Cr. 8vo. Pp. 126. 1920. Longmans. 5s.
- Macdonald, G.** *The Child's Inheritance. Its Scientific and Imaginative Meaning: or an Enquiry into the Science of the Imagination.* Demy 8vo. Pp. 339. 1910. Murray. 15s.
- Meredith, C. M.** *The Bearings of Modern Psychology on Educational Theory and Practice.* Cr. 8vo. Pp. 140. 1916. Constable. 3s. 6d.
- Mott, F. W.** *Nature and Nurture in Mental Development.* Cr. 8vo. Pp. 151. 1914. Murray. 6s.
- Mumford, E. E. R.** *The Dawn of Character in the Child.* 7th imp. Cr. 8vo. Pp. 226. 1920. Longmans. 5s. 6d.

Psychology

- Myers, C. S.** *Mind and Work. The Psychological Factors in Industry and Commerce.* Cr. 8vo. Pp. 216. 1920. University of London Press. 6s.
- Reaney, M. J.** *The Psychology of the Organized Group Game, with special reference to its place in the Play System and its educational value.* Roy. 8vo. Pp. 82. 1916. Cambridge University Press. 6s.
- Sandiford, P.** *The Mental and Physical Life of School Children.* Cr. 8vo. Pp. 358. 1919. Longmans. 7s. 6d.
- Slaughter, J. W.** *The Adolescent.* 3rd. edn. Cr. 8vo. Pp. 100. 1919. Allen & Unwin. 3s. 6d.
- Sully, J.** *Studies of Childhood.* 8vo. Pp. 536. 1919. Longmans. 15s.
- West, M.** *Education and Psychology.* Cr. 8vo. Pp. 350. 1914. Longmans. 8s. 6d.
- iv. THE ANIMAL MIND.
- Binet, A., and Feré, C.** *Animal Magnetism.* 5th edn. Cr. 8vo. Pp. 392. 1905. Kegan Paul. 7s. 6d.
- Morgan, C. Lloyd.** *Animal Behaviour.* 2nd edn. Cr. 8vo. Pp. 352. 1920. E. Arnold. 8s. 6d.
- Newland, C. B.** *What Is Instinct? Some Thoughts on Telepathy and Sub-consciousness in Animals.* Cr. 8vo. Pp. 217. 1916. Murray. 7s. 6d.
- Romanes, G. J.** *Animal Intelligence.* 9th edn. Cr. 8vo. Pp. 532. 1910. Kegan Paul. 7s. 6d.
- Smith, E. M.** *The Investigation of Mind in Animals.* Cr. 8vo. Pp. 208. 1915. Cambridge University Press. 5s. 6d.
- v. THE ABNORMAL AND PSYCHO-ANALYSIS.
- Bousfield, P.** *The Elements of Practical Psycho-Analysis.* Demy 8vo. Pp. 288. 1920. Kegan Paul. 10s. 6d.
- Bradby, M. K.** *Psycho-Analysis and Its Place in Life.* 2nd imp. Demy 8vo. Pp. 278. 1920. Frowde & Hodder. 10s. 6d.
- Freud, S.** *On Dreams.* Translated from the German by M. D. Eder. Cr. 8vo. Pp. 144. Heinemann. 3s. 6d.
- *The Psychopathology of Everyday Life.* Translated by A. A. Brill. 6th imp. Demy 8vo. Pp. 342. 1920. Fisher Unwin. 12s. 6d.
- *Totem and Taboo: Resemblances between the Psychic Lives of Savages and Neurotics.* Translated by A. A. Brill. 8vo. Pp. 280. 1919. Kegan Paul. 10s. 6d.
- *The Interpretation of Dreams.* Translated by A. A. Brill. Demy 8vo. Pp. 410. 1920. Allen & Unwin. 16s.
- *Wit and Its Relation to the Unconscious.* New imp. in the Press. Fisher Unwin.
- Hirsch, W.** *Genius and Degeneration. A Psychological Study.* Demy 8vo. Pp. 342. 1896. Heinemann. 17s.
- Jones, E.** *Papers on Psycho-Analysis.* 2nd edn. Roy. 8vo. Pp. 726. 1920. Baillière. 30s.
- Jung, C. G.** *Collected Papers on Analytical Psychology.* Authorised Translation. Edited by C. E. Long. 2nd edn. Demy 8vo. Pp. 520. 1917. Baillière. 18s.
- *Studies in Word-Association. Experiments in the Diagnosis of Psychopathological conditions applied to normal and abnormal persons.* Translated by M. D. Eder. Roy. 8vo. Pp. 575. 1918. Heinemann. 25s.
- Leri, A.** *Commotions and Emotions of War.* Edited by Sir J. Collie. Cr. 8vo. Pp. 262. 1919. University of London Press. 7s. 6d.
- Long, C. E.** *Collected Papers on the Psychology of Fantasy.* Demy 8vo. Pp. 228. 1920. Baillière. 10s. 6d.
- Low, B.** *Psycho-Analysis: A Brief Account of the Freudian Theory.* 2nd edn. Cr. 8vo. Pp. 191. 1920. Allen & Unwin. 6s.
- Nicoll, M.** *Dream Psychology.* 2nd edn. Cr. 8vo. Pp. 209. 1920. Frowde & Hodder. 7s.

Psychology

Ribot, T. *Diseases of Memory: an Essay in the Positive Psychology.* 5th edn. Cr. 8vo. Pp. 209. 1906. Kegan Paul. 7s. 6d.

Rivers, W. H. R. *Instinct and the Unconscious. A Contribution to a Biological Theory of the Psycho-Neuroses.* Demy 8vo. Pp. 260. 1920. Cambridge University Press. 16s.

Sully, J. *Illusions: a Psychological Study.* 4th edn. Cr. 8vo. Pp. 402. 1905. Kegan Paul 7s. 6d.

— *An Essay on Laughter: its Forms, its Cause, its Development, and its Value.* 8vo. Pp. 458. 1902. Longmans. 6s.

Watts, F. *Abnormal Psychology and its Educational Applications.* Cr. 8vo. Pp. 119. 1920. Allen & Unwin. 7s. 6d.

— *Echo Personalities: A Short Study of the Contributions of Abnormal Psychology towards the Solution of some of the Problems of Normal Education.* Cr. 8vo. Pp. 111. 1918. Allen & Unwin. 4s. 6d.

vi. SOCIAL PSYCHOLOGY.

Conway, Sir M. *The Crowd in Peace and War.* Cr. 8vo. Pp 340. 1915. Longmans. 7s. 6d.

Le Bon, G. *The Crowd: A Study of the Popular Mind.* 12th imp. 8vo. Pp. 239. 1920. Fisher Unwin. 7s. 6d.

McDougall, W. *An Introduction to Social Psychology.* 15th edn. Cr. 8vo. Pp. 483. 1920. Methuen. 8s. 6d.

— *The Group Mind: A Sketch of the Principles of Collective Psychology with some attempt to Apply them to the Interpretation of National Life and Character.* Roy. 8vo. Pp. 320. 1920. Cambridge University Press. 21s.

Spencer, H. *The Principles of Sociology.* Vol. 1. Pt. 1. *The Data of Sociology*; Pt. 2. *The Induction of Sociology*; Pt. 3. *Domestic Institutions.* 8vo. 21s. Vol. 2. Pt. 4. *Ceremonial Institutions*; Pt. 5. *Political Institutions.* 8vo. 18s. Vol. 3. Pt. 6. *Ecclesiastical Institutions*; Pt. 7. *Professional Institutions*; Pt. 8. *Industrial Institutions.* 8vo. 16s. Williams and Norgate.

— *Study of Sociology.* 22nd edn. Cr. 8vo. Pp. 408. 1908. Kegan Paul. 7s. 6d.

Trotter, W. *Instincts of the Herd in Peace and War.* 2nd edn. Med. 8vo. Pp. 264. 1920. Fisher Unwin. 8s. 6d.

Wallas, G. *The Great Society: A Psychological Analysis.* New imp. Demy 8vo. Pp. 395. 1920. Macmillan. 10s.

Wundt, W. M. *Elements of Folk Psychology: Outlines of A Psychological History of the Development of Mankind.* Translated by E. L. Schaub. Med. 8vo. Pp. 305. 1909. Allen & Unwin. 15s.

MATHEMATICS.

i. COLLECTED PAPERS.

Andrews, T. *The Scientific Papers of the late Thomas Andrews. With a Memoir by Profs. Tait and Crum Brown.* 8vo. Pp. 578. 1889. Macmillan. 18s.

Barrow, I. *Mathematical Works.* Edited by W. Whewell. Demy 8vo. Pp. 339. 1860. Cambridge University Press. 7s. 6d.

Cayley, A. *Collected Mathematical Papers.* Demy 4to. 1889—1899. Vols. I to XIII. Pp. 600 approx. each vol. 31s. 6d. each. Index. Pp. 147. 1898. 16s. Cambridge University Press.

Clifford, W. K. *Mathematical Papers.* Edited by R. Tucker. Introduction by H. J. S. Smith. 8vo. Pp. 740. 1882. Macmillan. 30s.

Hopkinson, J. *Original Papers.* Edited by B. Hopkinson. 2 vols. Demy 8vo. 1901. Vol. 1. *Technical Papers, Memoir.* Pp. 360. Vol. 2. *Scientific Papers.* Pp. 394. Cambridge University Press. 13s. 6d. each.

Kelvin, Lord. *Mathematical and Physical Papers.* 6 vols. Demy 8vo. Cambridge University Press. Vol. 1. Mainly 1841-53. Pp. 573. 1882. 21s. Vol. 2. Mainly 1853-56. Pp. 418. 1884. 17s. 6d. Vol. 3. *Elasticity, Heat, Electro-Magnetism.* Pp. 540. 1890. 21s. Vol. 4. *Hydrodynamics and General Dynamics.* Pp. 579. 1910. 21s. Vol. 5. *Thermodynamics, Cosmical and Geological Physics, Molecular and Crystalline Theory, Electrodynamics.* Pp. 617. 1911. 21s. Vol. 6. *Voltaic Theory, Radio-activity, Electrons, Navigation and Tides, Miscellaneous.* Pp. 386. 1911. 11s.

Knott, C. G. (edited by). *The Napier Tercentenary Memorial Volume; Papers contributed to the congress held at Edinburgh in July, 1914.* 4to. Pp. 454. 1915. Longmans. 21s.

Reynolds, O. *Papers on Mechanical and Physical Subjects.* 3 vols. Roy. 8vo. Vol. 1. Pp. 431. 1900. 20s. Vol. 2. Pp. 338. 1880. 27s. 6d. Vol. 3. Pp. 271. 1903. 15s. Cambridge University Press.

Smith, H. J. S. *Collected Mathematical Papers.* Edited with a Mathematical Introduction by J. W. L. Glaisher. 2 vols. 4to. Vol. 1. Pp. 690. Vol. 2. Pp. 728. Oxford: Clarendon Press. 63s.

Sylvester, J. J. *Collected Mathematical Papers.* Edited by H. F. Baker. 4 vols. Roy. 8vo. Vol. 1. Pp. 662. 1904. Vol. 2. Pp. 747. 1908. Vol. 3. Pp. 703. 1909. Vol. 4. Pp. 783. 1912. Cambridge University Press. 21s. each.

Tait, P. G. *Scientific Papers.* 2 vols. Demy 4to. Vol. 1. Pp. 514. 1898. Vol. 2. Pp. 500. 1900. Cambridge University Press. 30s. each.

ii. HISTORY.

Allman, G. J. *Greek Geometry from Thales to Euclid.* 8vo. Pp. 250. 1889. Longmans. 15s. 6d.

Ball, W. W. R. *A Short Account of the History of Mathematics.* 6th edn. Large Cr. 8vo. Pp. 546. 1915. Macmillan. 12s. 6d.

Cunnington, S. *The Story of Arithmetic: A Short History of its Origin and Development.* Cr. 8vo. Pp. 254. 1904. Allen & Unwin. 3s. 6d.

Frankland, W. B. Theories of Parallelism: an historical critique. Demy 8vo. Pp. 88. 1910. Cambridge University Press. 5s. 6d.

Heath, T. L. Diophantus of Alexandria, a Study in the History of Greek Algebra. 2nd edn. Roy. 8vo. Pp. 396. 1910. Cambridge University Press. 15s.

— The Works of Archimedes. Edited in modern notation. Demy 8vo. Pp. 502. 1897. Cambridge University Press. 17s. 6d.

— The Method of Archimedes. A Supplement to the above. Cr. 8vo. Pp. 51. 1912. Cambridge University Press. 3s.

Hobson, E. W. "Squaring the Circle." A History of the Problem. Demy 8vo. Pp. 66. 1913. Cambridge University Press. 3s. 6d.

Knott, C. G. The Life and Scientific Work of Peter Guthrie Tait. Demy 4to. Pp. 390. 1911. Cambridge University Press. 15s.

iii. PHILOSOPHY AND PEDAGOGY OF MATHEMATICS.

Berkeley, H. Mysticism in Modern Mathematics. 8vo. Pp. 276. 1910. Oxford: Clarendon Press. 8s.

Branford, B. Mathematical Education, including the Teaching of Arithmetic. Cr. 8vo. Pp. 404. 1908. Oxford: Clarendon Press. 5s.

Jaeger, F. M. Lectures on the Principle of Symmetry and its application in all Natural Sciences. Roy. 8vo. Pp. 346. 1919. Cambridge University Press. 20s.

Nunn, T. P. The Teaching of Algebra, including Trigonometry. New edn. Cr. 8vo. Pp. 632. 1919. Longmans. 9s.

Thomson, J. B. The Art of Teaching Arithmetic. 2nd edn. Cr. 8vo. Pp. 304. 1921. Longmans. 6s.

Whitehead, A. N. Introduction to Mathematics. Fcap. 8vo. Pp. 256. 1911. Williams & Norgate. 2s. 6d.

Whitehead, A. N. and Russell, B. Principia Mathematica. Roy. 8vo. Vol. 1. Pp. 679. 1910. 25s. Vol. 2. Pp. 796. 1912. 30s. Vol. 3. Pp. 501. 1913. 25s. Cambridge University Press.

Young, J. W. A. Monographs on Topics of Modern Mathematics Relevant to the Elementary Field. New edn. 8vo. Pp. 424. 1915. Longmans. 15s.

— The Teaching of Mathematics in the Elementary and Secondary School. New edn. Cr. 8vo. Pp. 378. 1919. Longmans. 7s. 6d.

iv. EXAMINATION PAPERS.

Fawdry, R. C. Problem Papers in Mathematics on the lines of the Examinations by the Civil Service Commission. With Answers. Cr. 8vo. Pp. 224. 1915. Macmillan. 5s.

Milne, R. M. (edited by). Mathematical Papers for admission into the Royal Military Academy and the Royal Military College; and Papers in Elementary Engineering for Naval Cadetships and Royal Air Force, for the years 1911-1920, with Answers. Cr. 8vo. 1921. Macmillan. 10s. 6d.

Radford, E. M. Mathematical Problem Papers. 2nd edn. Cr. 8vo. Pp. 210. 1914. 6s. Solutions. Pp. 566. 1914. 12s. 6d. Cambridge University Press.

Wolstenholme, J. Mathematical Problems, on subjects included in the First and Second Divisions of Cambridge Mathematical Tripos. 3rd edn. 8vo. Pp. 512. 1891. Macmillan. 18s.

v. POPULAR.

Ball, W. W. R. Mathematical Recreations and Essays. 7th edn. Ex. cr. 8vo. Pp. 508. 1919. Macmillan. 10s. 6d.

vi. GENERAL PURE MATHEMATICS.

Bowley, A. L. A General Course of Pure Mathematics from Indices to Solid Analytical Geometry. 8vo. Pp. 284. 1913. Oxford: Clarendon Press. 7s. 6d.

Hardy, G. H. A Course of Pure Mathematics. 2nd edn. Demy 8vo. Pp. 156. 1914. Cambridge University Press. 14s.

Whittaker, E. T., and Watson, G. N. A Course of Modern Analysis. An Introduction to the General Theory of Infinite Processes, and of Analytic Functions; with an account of the Principal Transcendental Functions. 8rd edn. Roy. 8vo. Pp. 608. 1920. Cambridge University Press. 40s.

vii. FUNCTIONS.

Baker, H. F. An Introduction to the Theory of Multiply-Periodic Functions. Roy. 8vo. Pp. 351. 1907. Cambridge University Press. 17s.

— Abel's Theorem and the Allied Theory, including the Theory of the Theta Functions. Roy. 8vo. Pp. 704. 1897. Cambridge University Press. 30s.

Bôcher, M. An Introduction to the Study of Integral Equations. 2nd edn. Demy 8vo. Pp. 71. 1914. Cambridge University Press. 3s.

Dixon, A. C. The Elementary Properties of the Elliptic Functions. Gl. 8vo. Pp. 150. 1894. Macmillan. 5s.

Forsyth, A. R. Lectures Introductory to the Theory of Functions of Two Complex Variables. Roy. 8vo. Pp. 297. 1914. Cambridge University Press. 15s.

— Theory of Functions of a Complex Variable. 3rd edn. Roy. 8vo. Pp. 879. 1918. Cambridge University Press. 33s.

Gray, A., and Mathews, G. B. A Treatise on Bessel Functions and their Applications to Physics. 8vo. New imp. in the Press. Macmillan. 14s.

Greenhill, Sir A. G. The Applications of Elliptic Functions. 8vo. Pp. 370. 1892. Macmillan. 14s.

Hardy, G. H., and Riesz, M. The General Theory of Dirichlet's Series. Demy 8vo. Pp. 86. 1915. Cambridge University Press. 4s.

Hardy, G. H. Orders of Infinity. The *Infinitärrechnung* of Paul du Bois-Reymond. Demy 8vo. Pp. 70. 1910. Cambridge University Press. 3s.

Hobson, E. W. The Theory of Functions of A Real Variable and the Theory of Fourier's Series. Vol. 1. 2nd edn. Roy. 8vo. Pp. 688. 1921. Cambridge University Press. 45s.

MacRobert, T. M. Functions of a Complex Variable. 8vo. Pp. 312. 1917. Macmillan. 12s.

Watson, G. N. Complex Integration and Cauchy's Theorem. Demy 8vo. Pp. 88. 1914. Cambridge University Press. 3s. 6d.

Young, W. H., and G. C. The Theory of Sets of Points. Demy 8vo. Pp. 328. 1906. Cambridge University Press. 12s.

viii. VECTORS AND QUATERNIONS.

Hamilton, Sir W. R. Elements of Quaternions. Edited by C. J. Joly. 2 vols. Vol. 1. Pp. 622. 1899. Vol. 2. Pp. 558. 1901. Longmans. 30s. 6d. each. vol.

Hayward, R. B. The Algebra of Co-Planar Vectors and Trigonometry. Cr. 8vo. Pp. 376. 1892. Macmillan. 8s. 6d.

Henrici, O., and Turner, G. C. Vectors and Rotors: with Applications. Cr. 8vo. Pp. 220. 1910. Arnold. 5s.

Joly, C. J. A Manual of Quaternions. 8vo. Pp. 348. 1892. Macmillan. 12s. 6d.

Kelland, B., and Tait, P. G. Introduction to Quaternions; with numerous Examples. 3rd edn. Cr. 8vo. Pp. 226. 1904. Macmillan. 8s. 6d.

McAulay, A. Utility of Quaternions in Physics. 8vo. Pp. 122. 1893. Macmillan. 6s. 6d.

Silberstein, L. Projective Vector Algebra. An Algebra of Vectors, independent of the Axioms of Congruence and of Parallels. Demy 8vo. Pp. 76. 1919. Bell. 7s. 6d.

— Vectorial Mechanics. 8vo. Pp. 200. 1913. Macmillan. 10s.

Silberstein, L. Elements of Vector Algebra. Cr. 8vo. Pp. 48. 1919. Longmans. 5s. 6d.

Weatherburn, C. E. Elementary Vector Analysis: with Application to Geometry and Physics. Demy 8vo. Pp. 211. 1921. Bell. 12s.

ix. APPLIED MATHEMATICS.— DYNAMICS, PHYSICS, etc.

Havelock, T. H. The Propagation of Disturbances in Dispersive Media. Demy 8vo. Pp. 96. 1914. Cambridge University Press. 4s. 6d.

Ibbetson, W. J. The Mathematical Theory of Perfectly Elastic Solids, with A Short Account of Viscous Fluids. 8vo. Pp. 532. 1887. Macmillan. 21s.

Leathem, J. G. The Elementary Theory of the Symmetrical Optical Instrument. Demy 8vo. Pp. 82. 1908. Cambridge University Press. 3s.

Newton, Sir I. The First Three Sections of Newton's Principia, with Notes, Illustrations, and Problems. Edited by P. Frost. 3rd edn. 8vo. Pp. 308. 1900. Macmillan. 14s.

Tarleton, F. A. An Introduction to the Mathematical Theory of Attraction. 2 vols. Cr. 8vo. Vol. 1. Pp. 302. 1899. 10s. 6d. Vol. 2. Pp. 220. 1913. 6s. Longmans.

x. PRACTICAL APPLIED MATHEMATICS (ELEMENTARY).

Bates, E. L., and Charlesworth, F. Practical Mathematics and Geometry. A Text-book for Students in Technical and Trade Schools, etc. Cr. 8vo. 1919. Part 1. Preliminary Course. Pp. 230. 2s. 6d. Part 2. Elementary Course, Pp. 220. 2s. 6d. Part 3. Advanced Course. Pp. 320. 5s. Parts 1, 2 and 3 together. 8s. Batsford.

— Practical Mathematics. Comprising a complete Course of Instruction for Technical Students and Practical Men. 2nd edn. Cr. 8vo. Pp. 520. 1917. Batsford. 5s.

Brodetsky, S. A First Course in Nomography. 8vo. Pp. 147. 1920. Bell. 10s. 6d.

Castle, F. Workshop Mathematics. 2 Parts. Gl. 8vo. Pp. 178., 208. 1919. 1920. Macmillan. 1s. 9d. each.

— Practical Mathematics for Beginners. New imp. Gl. 8vo. Pp. 410. 1920. 3s. 6d. Key. 6s. 6d. Macmillan.

— Manual of Practical Mathematics. Gl. 8vo. Pp. 634. 1919. Macmillan. 7s.

— Elementary Practical Mathematics for Technical Students. New imp. Gl. 8vo. Pp. 444. 1919. Macmillan. 4s.

Cocks, O. H., and Glover, E. P. Mathematics of Business and Commerce. Cr. 8vo. Pp. 255. 1920. Hodder & Stoughton. 4s. 6d.

Cracknell, A. G. Practical Mathematics: with Tables of Logs and Antilogs. Cr. 8vo. Pp. 398. 1920. Longmans. 5s. 6d.

Dobbs, W. J. Weighing and Measuring. A Short Course of Practical Exercises in Elementary Mathematics and Physics. Cr. 8vo. Pp. 184. 1910. Methuen. 3s. 6d.

Forrest, S. N. Mathematics for Technical Students. Junior Course. Cr. 8vo. Pp. 268. 1920. Arnold. 7s. 6d.

Gates, S. B. Pure Mathematics for Engineers. Cr. 8vo. 2 vols. Pp. 202., 190. 1920. Hodder & Stoughton. 4s. 6d. each.

Gibb, D. A Course in Interpolation and Numerical Integration for the Mathematical Laboratory. Pp. 90. 1915. Bell. 3s. 6d.

Haler, P. J., and Stuart, A. H. A Course in Mathematics for Technical Students. Cr. 8vo. Part 1. 2nd edn. 3rd imp. Pp. 204. 1919. 3s. Part 2. Pp. 371. 1920. 6s. University Tutorial Press.

Harvey, F. W. Everyman's Mathematics. Cr. 8vo. Pp. 142. 1920. Methuen. 4s.

- Hovenden, F.** *Practical Mathematics for Engineers.* Cr. 8vo. Pp. 144. 1907. Jas. Munro. 3s. 6d.
- Hudson, H. P.** *Ruler and Compasses.* Cr. 8vo. Pp. 150. 1916. Longmans. 6s. 6d.
- Knott, C. G., and Mackay, J. S.** *Practical Mathematics.* Revised new edn. Cr. 8vo. Pp. 639. N.D. Chambers. 6s.
- Larard, C. E., and Golding, H. A.** *Practical Calculations for Engineers.* Vol. 1. 4th edn. Cr. 8vo. Pp. 399. 1918. 5s. Vol. 2. In preparation. Griffin.
- M'Lachlan, N. W.** *Practical Mathematics for Students attending Evening and Day Technical Classes.* Cr. 8vo. Pp. 184. 1913. Longmans. 3s. 6d.
- Mann, H. L.** *A Text-book on Practical Mathematics for Advanced Technical Students.* 8vo. Pp. 500. 1915. Longmans. 10s. 6d.
- Mellor, J. W.** *Higher Mathematics for Students of Chemistry and Physics with special reference to Practical Work.* 4th edn. 8vo. Pp. 682. 1920. Longmans. 21s.
- Millis, C. T.** *Technical Arithmetic and Geometry.* For Use in Technical Institutes and Workshops. 3rd edn. Cr. 8vo. Pp. 316. 1919. Methuen. 5s.
- Partington, J. R.** *Higher Mathematics for Chemical Students.* 2nd edn. Cr. 8vo. Pp. 272. 1920. Methuen. 6s.
- Percival, A. S.** *Practical Integration for the Use of Engineers, etc.* Cr. 8vo. Pp. 122. 1909. Macmillan. 3s.
- Perry, J.** *Elementary Practical Mathematics.* 8vo. Pp. 350. 1913. Macmillan. 7s.
- Rose, W. N.** *Mathematics for Engineers.* 2 vols. Demy 8vo. Vol. 1. 2nd edn. Pp. 520. 1920. 10s. 6d. Vol. 2. Pp. 433. 1920. 13s. 6d. Chapman & Hall.
- Sandon, F.** *Everyday Mathematics.* Cr. 8vo. Pp. 272. 1920. Hodder & Stoughton. 4s. 6d.
- Saxelby, F. M.** *An Introduction to Practical Mathematics.* 7th imp. Cr. 8vo. Pp. 228. 1919. Longmans. 4s.
- *A Course in Practical Mathematics.* Stages ii and iii. 8vo. Pp. 484. 1913. Longmans. 12s.
- Sprague, E. H.** *Elementary Mathematics for Engineers.* Cr. 8vo. Pp. 236. 1916. Scott, Greenwood, 5s.
- Stern, H. A., and Topham, W. H.** *Practical Mathematics.* 2nd edn. Cr. 8vo. Pp. 418. 1920. Bell. 6s.
- Turner, G. C.** *Graphical Methods in Applied Mathematics.* Cr. 8vo. Pp. 398. 1909. Macmillan. 7s.
- Usherwood, T. S., and Trimble, C. J. A.** *Practical Mathematics for Technical Students.* Cr. 8vo. Part 1. Pp. 378. 1919. 4s. Part 2. Pp. 576. 1916. 8s. 6d. Macmillan.

xi. ALGEBRA.

a. Elementary.

- Baker, W. M., and Bourne, A. A.** *Elementary Algebra, with or without Answers.* 17th edn. Cr. 8vo. Pp. 560. 1919. 6s. Key to ditto. 3rd edn. Pp. 252. 1919. 12s. Bell.
- Barnard, S., and Child, J. M.** *A New Algebra. With or without Answers.* Cr. 8vo. Vol. 1. Pp. 320. 1919. 4s. 6d. Key. 7s. 6d. Vol. 2. Pp. 431. 1919. 5s. Key. 10s. Macmillan.
- Borchardt, W. G.** *Elementary Algebra, with Answers.* 7th edn. Cr. 8vo. Pp. 562. 1918. 5s. Key Complete. Cr. 8vo. Pp. 511. 1912. 10s. Rivington.
- Briggs, W., and Bryan, G. H.** *The Tutorial Algebra. Advanced Course.* 4th edn. 11th imp. Cr. 8vo. Pp. 655. 1919. 9s. 6d. Key. 5s. University Tutorial Press.

Mathematics

- Briggs, W., and Bryan, G. H.** A Middle Algebra (from the Tutorial Algebra). 4th imp. Cr. 8vo. Pp. 364. 1916. University Tutorial Press. 5s.
- Buck, R. C.** A Manual of Algebra. Designed to meet the Requirements of Sailors and Others. 2nd edn. Cr. 8vo. Pp. 166. 1906. Griffin. 3s. 6d.
- Chrystal, G.** Introduction to Algebra. 3rd edn. Cr. 8vo. Pp. 412. 1914. Black. 6s.
- Cracknell, A. G.** School Algebra. With Answers. 2nd imp. Cr. 8vo. Pp. 654. 1919. University Tutorial Press. 7s. 6d.
- Davison, C.** Algebra for Secondary Schools. Cr. 8vo. Pp. 632. 1918. 10s., or in 2 Vols. 6s. 6d. each. Cambridge University Press.
- Higher Algebra for Colleges and Secondary Schools. * Demy 8vo. Pp. 328. 1918. Cambridge University Press. 8s. 6d.
- Deakin, R.** Elementary Algebra (formerly entitled The New Matriculation Algebra). 4th edn. 11th imp. Cr. 8vo. Pp. 416. 1914. 4s. 6d. Key. 6s. 6d. University Tutorial Press.
- Eastwood, G. S., and Fielden, J. R.** Algebra for Engineering Students. Cr. 8vo. Pp. 208. 1919. Arnold. 7s. 6d.
- French, C. H., and Osborn, G.** Elementary Algebra. Cr. 8vo. Pp. 514. 1908. Cambridge University Press. 5s.
- Gibson, G. A.** Elementary Treatise on Graphs. Cr. 8vo. Pp. 244. 1919. Macmillan. 4s. 6d.
- Godfrey, C., and Siddons, A. W.** Elementary Algebra. Cr. 8vo. Pp. 638. 1920. Cambridge University Press. 8s.
- Hall, H. S.** A School Algebra, with Answers. Cr. 8vo. Pp. 624. 1919. 5s. 6d. Key to ditto. Pp. 672. 1919. 12s. Macmillan.
- and Knight, S. R. Elementary Algebra for Schools, with Answers. 8th edn. Gl. 8vo. Pp. 524. 1919. 5s. Key, for Teachers only. Pp. 464. 1919. 10s. Macmillan.
- Higher Algebra. 4th edn. Cr. 8vo. Pp. 570. 1919. 8s. 6d. * Key to ditto. Pp. 380. 1920. 12s. 6d. Macmillan.
- Nunn, T. P.** Exercises in Algebra, including Trigonometry. Cr. 8vo. Part 1., with Answers. Pp. 368. 1918. 7s. 6d. without Answers. 6s. 6d. Part 2., with Answers. Pp. 564. 1914. 8s. 6d., without Answers. 7s. 6d. Longmans.
- O'Dea, J. J.** The New Explicit Algebra in Theory and Practice. Cr. 8vo. Pp. 748. 8s. 6d. Also in two Parts. Part 1, 3s. 6d. Part 2, 5s. 6d. Longmans.
- Ross, P.** Elementary Algebra for the use of Higher Grade and Secondary Schools, with Answers. New imp. Cr. 8vo. Pp. 504. 1919. 7s. 6d. Also in two parts. 4s. 6d. each. Longmans.
- Smith, C.** A Treatise on Algebra. 5th edn. Cr. 8vo. Pp. 664. 1920. 8s. 6d. Key to ditto. Pp. 322. 1914. 12s. 6d. Macmillan.
- Smith, J. H.** Elementary Algebra, with Answers. Cr. 8vo. Pp. 478. 1919. 5s. Key. Cr. 8vo. Pp. 424. 1908. 10s. Longmans.
- b. Higher Algebra, Theory of Equations and Quantics.**
- Burnside, W. S., and Panton, A. W.** The Theory of Equations: with an Introduction to the Theory of Binary Algebraic Forms. 2 Vols. 8vo. Vol. 1. 8th edn. Pp. 300. 1918. Vol. 2. 6th edn. Pp. 308. 1916. Longmans. 15s. 6d. each Vol.
- Chrystal, G.** Algebra, an Elementary Text-book for the Higher Classes of Secondary Schools and Colleges. Post 8vo. Part 1. 5th edn. Pp. 571. 1910. 12s. 6d. Part 2. 2nd edn. Pp. 616. 1919. 12s. 6d. Black.
- Dickson, L. E.** Linear Algebras. Demy 8vo. Pp. 82. 1914. Cambridge University Press. 3s. 6d.

- Elliott, E. B.** *Algebra of Quantics*, an introduction, having as its primary object the explanation of the leading principles of invariant Algebra. 2nd edn. 8vo. Pp. 432. 1913. Oxford: Clarendon Press. 15s.
- Klein, F.** *Lectures on the Icosahedron, and the Solutions of Equations of the Fifth Degree*. Translated by G. G. Morrice. 2nd edn. 8vo. Pp. 305. 1913. Kegan Paul. 10s. 6d.
- Macaulay, F. S.** *The Algebraic Theory of Modular Systems*. Demy 8vo. Pp. 126. 1916. Cambridge University Press. 5s. 6d. •
- Mathews, G. B.** *Algebraic Equations*. 2nd edn. Demy 8vo. Pp. 72. 1915. Cambridge University Press. 3s.
- Milne, W. P.** *Higher Algebra*. Cr. 8vo. Pp. 598. 1913. Arnold. 8s. 6d.
- *Homogeneous Co-ordinates*. Cr. 8vo. Pp. 176. 1910. Arnold. 6s.
- Whitehead, A. N.** *A Treatise on Universal Algebra*. Vol. 1. Roy. 8vo. Pp. 612. 1898. Cambridge University Press. 24s.
- c. Determinants, Theory of Groups, etc.**
- Burnside, W.** *Theory of Groups of Finite Order*. 2nd edn. Demy 8vo. Pp. 526. 1911. Cambridge University Press. 17s. 6d.
- Campbell, J. E.** *Theory of Continuous Groups, an Introductory Treatise on Lie's Theory of Finite Continuous Transformation Groups*. 8vo. Pp. 436. 1903. Oxford: Clarendon Press. 14s.
- Cullis, C. E.** *Matrices and Determinoids*. Roy. 8vo. Vol. 1. Pp. 442. 1914. 24s. Vol. 2. Pp. 580. 1918. 42s. Cambridge University Press.
- Grace, J. H., and Young, A.** *The Algebra of Invariants*. Demy 8vo. Pp. 384. 1903. Cambridge University Press. 12s. 6d.
- Hilton, H.** *Homogeneous Linear Substitutions*. A collection for the benefit of the Mathematical Student of those properties of the Homogeneous Linear Substitution, with real or complex co-efficients of which frequent use is made in the Theory of Groups and the Theory of Bilinear Forms and Invariant Factors. 8vo. Pp. 192. 1914. Oxford: Clarendon Press. 12s. 6d.
- *Theory of Groups of Finite Order*, an Introduction which aims at introducing the reader to more advanced treatises and original papers on Groups of Finite Orders. 8vo. Pp. 248. 1908. Oxford: Clarendon Press. 14s.
- MacMahon, P. A.** *An Introduction to Combinatory Analysis*. 8vo. 1920. Cambridge University Press. 7s. 6d.
- *Combinatory Analysis*. 2 Vols. Roy. 8vo. Vol. 1. Pp. 329. 1915. 20s. Vol. 2. Pp. 359. 1916. 18s. Cambridge University Press.
- Muir, Sir T.** *Theory of Determinants in the Historical Order of Development*. 8vo. Vol. 1. Part 1. General Determinants up to 1841. Vol. 1. Part 2. Special Determinants up to 1841. Pp. 504. 1906. 21s. Vol. 2. The Period 1841 to 1860. Pp. 492. 1911. 21s. Vol. 3. The Period 1861 to 1880. Pp. 530. 1920. 35s. Macmillan.
- Scott, R. F.** *The Theory of Determinants and their Applications*. 2nd edn., revised by G. B. Mathews. Demy 8vo. Pp. 299. 1904. Cambridge University Press. 12s.
- Wright, J. E.** *Invariants of Quadratic Differential Forms*. Demy 8vo. Pp. 98. 1908. Cambridge University Press. 3s.
- xii. CALCULUS.**
- a. Elementary.**
- Andrews, E. S., and Heywood, H. B.** *The Calculus for Engineers*. Cr. 8vo. Pp. 284. 1914. Scott, Greenwood. 5s.

- Baker, W. M.** The Calculus for Beginners. 4th edn. Cr. 8vo. Pp. 166. 1919. Bell. 3s. 6d.
- Barker, A. H.** Graphical Calculus. 5th imp. Cr. 8vo. Pp. 208. 1914. Longmans. 5s. 6d.
- Blaine, R. G.** The Calculus and Its Applications. A Practical Treatise for Engineering Students. Cr. 8vo. Pp. 332. 1919. Constable. 5s.
- Carey, F. S.** Infinitesimal Calculus. New imp. 8vo. Pp. 366. 1919. 16s. also in two parts. Part 1. 7s. 6d. Part 2. 10s. 6d. Longmans.
- Carslaw, H. S.** An Introduction to the Infinitesimal Calculus. Notes for the use of Science and Engineering Students. 2nd edn. 8vo. Pp. 154. 1919. Longmans. 6s. 6d.
- Caunt, G. W.** Introduction to the Infinitesimal Calculus, with Applications to Mechanics and Physics. 8vo. Pp. 588. 1914. Oxford: Clarendon Press. 10s.
- Gibson, G. A.** Elementary Treatise on the Calculus. Cr. 8vo. Pp. 552. 1919. Macmillan. 8s. 6d.
- Graham, J.** An Elementary Treatise on the Calculus, for Engineering Students. 4th edn. Cr. 8vo. Pp. 355. 1914. Spon. 8s. 6d.
- Lamb, H.** An Elementary Course of Infinitesimal Calculus. 3rd edn. Demy 8vo. Pp. 544. 1919. Cambridge University Press. 22s. 6d.
- Larkman, A. E.** The Calculus, for Marine Engineers. Demy 8vo. Pp. 92. 1918. James Brown. 4s. 6d.
- McNeile, A. M., and J. D. A.** School Calculus. Med. 8vo. Pp. 375. 1911. Murray. 9s.
- Mayo, C. H. P.** Elementary Calculus. Cr. 8vo. Pp. 404. 1919. Rivington. 10s.
- Mercer, J. W.** The Calculus for Beginners. Cr. 8vo. Pp. 464. 1919. Cambridge University Press. 8s. 6d.
- Milne, W. P., and Westcott, G. J. B.** A First Course in the Calculus. Cr. 8vo. Part 1. 2nd edn. Pp. 196. 1919. 4s. Part 2. Trigonometric and Logarithmic Functions of X, etc. Pp. 260. 1920. 5s. 2 Parts in 1 Vol. 8s. 6d. Bell.
- Murray, D. A.** A First Course in the Infinitesimal Calculus. Cr. 8vo. Pp. 458. 1918. Longmans. 8s. 6d.
- Perry, J.** The Calculus for Engineers. 13th imp. Cr. 8vo. Pp. 390. Arnold. 8s. 6d.
- Smith, R. H.** The Calculus for Engineers and Physicists, Integration and Differentiation, with Applications to Technical Problems: and Classified Reference List of Integrals. 2nd edn. Cr. 8vo. Pp. 222. 1908. Griffin. 9s.
- Thompson, S. P.** Calculus Made Easy. 2nd edn. Gl. 8vo. Pp. 314. 1919. Macmillan. 3s.
- b. Differential and Integral.**
- Davison, C.** Differential Calculus. Cr. 8vo. Pp. 309. 1919. Bell. 6s. 6d.
- Edwards, J.** Differential Calculus for Beginners. Gl. 8vo. Pp. 272. 1919. Macmillan. 5s.
- The Differential Calculus: with Applications and numerous Examples. 3rd edn. 8vo. Pp. 546. 1918. Macmillan. 17s.
- The Integral Calculus for Beginners. Gl. 8vo. Pp. 322. 1919. Macmillan. 5s.
- Hardy, G. H.** The Integration of Functions of a Single Variable. 2nd edn. Demy 8vo. Pp. 75. 1916. Cambridge University Press. 4s.
- Leathem, J. G.** Volume and Surface Integrals used in Physics. 2nd edn. Demy 8vo. Pp. 54. 1913. Cambridge University Press. 3s.
- Lodge, A.** Integral Calculus for Beginners. 2nd edn. Cr. 8vo. Pp. 203. 1911. Bell. 5s.
- Differential Calculus for Beginners. 4th edn. Cr. 8vo. Pp. 299. 1913. Bell. 5s.

- Love, A. E. H.** Elements of the Differential and Integral Calculus. Cr. 8vo. Pp. 222. 1918. Cambridge University Press. 6s. 6d.
- Murray, D. A.** Differential and Integral Calculus. Cr. 8vo. Pp. 510. 1918. Longmans. 9s.*
- Prasad, G.** A Text Book of Integral Calculus. 8vo. Pp. 252. 1910. Longmans. 9s.
- A Text-Book of Differential Calculus. 8vo. Pp. 124. 1909. Longmans. 8s.
- Stoney, J.** An Introduction to the Differential and Integral Calculus: for the use of Engineering and Technical Students. Cr. 8vo. Pp. 146. 1919. Pitman. 3s. 6d.
- Taylor, F. G.** An Introduction to the Differential and Integral Calculus and Differential Equations. Cr. 8vo. Pp. 592. 1916. Longmans. 10s. 6d.
- Todhunter, I.** A Treatise on the Differential Calculus. Cr. 8vo. Pp. 428. 1919. 12s. 6d. Key to ditto. Cr. 8vo. Pp. 160. 1920. 12s. 6d. Macmillan.
- A Treatise on the Integral Calculus. Cr. 8vo. Pp. 416. 1916. 12s. 6d. Key to ditto. Cr. 8vo. Pp. 138. 1913. 12s. 6d. Macmillan.
- Wansbrough, W. D.** A.B.C. of the Differential Calculus. 3rd edn. Cr. 8vo. Pp. 148. 1922. Technical Pub. Co. 4s. 9d.
- Williamson, B.** An Elementary Treatise on the Integral Calculus. Cr. 8vo. Pp. 538. 1918. Longmans. 12s. 6d.
- An Elementary Treatise on the Differential Calculus: containing the Theory of Plane Curves. Cr. 8vo. Pp. 488. 1920. Longmans. 12s. 6d.
- Young, W. H.** The Fundamental Theorems of the Differential Calculus. Demy 8vo. Pp. 82. 1910. Cambridge University Press. 3s.
- c. Differential Equations, etc.**
- Bateman, H.** Differential Equations. 8vo. Pp. 318. 1918. Longmans. 10s. 6d.
- Forsyth, A. R.** A Treatise on Differential Equations. 4th edn. 8vo. Pp. 602. 1914. 17s. Solutions of the Examples. 8vo. Pp. 249. 1918. 10s. Macmillan.
- Theory of Differential Equations. Demy 8vo. Part 1. Exact Equations and Pfaff's Problem. Pp. 352. 1899. 10s. Part 2. Ordinary Equations, not linear. 2 Vols. Pp. 356., 401. 1900. 27s. Part 3. Ordinary Linear Equations. Pp. 550. 1902. 16s. Part 4. Partial Differential Equations. 2 Vols. Pp. 488., 609. 1906. 31s. 6d. Cambridge University Press.
- Murray, D. A.** An Introductory Course in Differential Equations. 14th imp. Cr. 8vo. Pp. 252. 1919. Longmans. 6s. 6d.
- Page, J. M.** Ordinary Differential Equations. Cr. 8vo. Pp. 246. 1897. Macmillan. 6s. 6d.
- Piaggio, H. T. H.** An Elementary Treatise on Differential Equations and their Applications. Demy 8vo. Pp. 257. 1920. Bell. 12s.
- xiii. HIGHER GEOMETRY,
PURE AND ANALYTICAL, AND
DIFFERENTIAL GEOMETRY.**
- Basset, A. B.** A Treatise on the Geometry of Surfaces. 8vo. Pp. 291. 1910. Bell. 12s. 6d.
- An Elementary Treatise on Cubic and Quartic Curves. 8vo. Pp. 255. 1901. Bell. 12s. 6d.
- Besant, W. H.** Notes on Roulettes and Glisettes. 2nd edn. Cr. 8vo. Pp. 99. 1890. Bell. 5s.
- Coolidge, J. L.** A Treatise on the Circle and the Sphere. 8vo. Pp. 604. 1916. Oxford: Clarendon Press. 21s.

- Ferrers, N. M.** An Elementary Treatise on Trilinear Co-ordinates, the Method of Reciprocal Polars, and the Theory of Projectors. 4th edn. Cr. 8vo. Pp. 198. 1890. Macmillan. 6s. 6d.
- Forsyth, A. R.** Lectures on the Differential Geometry of Curves and Surfaces. Roy. 8vo. Pp. 550. 1912. Cambridge University Press. 40s.
- Fowler, R. H.** The Elementary Differential Geometry of Plane Curves. Demy 8vo. Pp. 114. 1920. Cambridge University Press. 6s. 6d.
- Frost, P.** An Elementary Treatise on Curve Tracing. 4th edn. Revised by R. J. T. Bell. 8vo. Pp. 226. 1918. Macmillan. 12s. 6d.
- Hatton, J. L. S.** The Theory of the Imaginary in Geometry. Roy. 8vo. Pp. 224. 1920. Cambridge University Press. 19s.
- Henderson, A.** The Twenty-Seven Lines upon the Cubic Surface. Demy 8vo. Pp. 108. 1911. Cambridge University Press. 5s. 6d.
- Hime, H. W. L.** Anharmonic Coordinates. 8vo. Pp. 142. 1910. Longmans. 7s. 6d.
- Hudson, R. W. H. T.** Kummer's Quartic Surface. Demy 8vo. Pp. 230. 1905. Cambridge University Press. 10s.
- Jessop, C. M.** Quartic Surfaces with Singular Points. Demy 8vo. Pp. 234. 1916. Cambridge University Press. 12s.
- A Treatise on the Line Complex. Demy 8vo. Pp. 379. 1903. Cambridge University Press. 12s. 6d.
- Thompson, A. W. H.** A New Analysis of Plane Geometry, Finite and Differential. Demy 8vo. Pp. 136. 1914. Cambridge University Press. 7s.
- Whitehead, A. N.** The Axioms of Descriptive Geometry. Demy 8vo. Pp. 82. 1914. Cambridge University Press. 3s.
- Wood, P. W.** The Twisted Cubic, with some account of the Metrical Properties of the Cubical Hyperbola. Demy 8vo. Pp. 88. 1913. Cambridge University Press. 3s.
- xiv. PURE GEOMETRY.**
- a. Elementary.**
- Askwith, E. H.** A Course of Pure Geometry. Containing a complete Geometrical Treatment of the Properties of the Conic Sections. New edn. Demy 8vo. Pp. 295. 1917. Cambridge University Press. 7s. 6d.
- Baker, W. M., and Bourne, A. A.** A New Geometry. 4th edn. Cr. 8vo. Pp. 250. 1919. Bell. 3s. 6d.
- Elementary Geometry: A Modern Text-book of Practical and Theoretical Geometry. 12th edn. Cr. 8vo. Pp. 474. 1919. 5s. 6d. Complete Key. 4th edn. Cr. 8vo. Pp. 178. 1917. 8s. 6d. Bell.
- Barnard, S., and Child, J. M.** Elements of Geometry. New imp. Cr. 8vo. Pp. 508. 1919. Macmillan. 5s.
- A New Geometry for Schools. New imp. Cr. 8vo. Pp. 539. 1916. Macmillan. 5s.
- Budden, E.** Elementary Pure Geometry with Mensuration. A Complete Course of Geometry. Cr. 8vo. Pp. 292. 1904. Chambers. 3s.
- Burchett, R.** Practical Geometry: A Course of Instruction of Plane Geometrical Figures for the Use of Schools. 18th edn. Cr. 8vo. 1894. Chapman and Hall. 5s. 6d.
- Davison, C.** The Elements of Plane Geometry. Cr. 8vo. Pp. 280. 1920. Cambridge University Press. 10s.
- and Richards, C. H. Plane Geometry for Secondary Schools. Cr. 8vo. Pp. 419. 1907. Cambridge University Press. 8s.
- Dobbs, H. J.** A School Course in Geometry, with Answers. Cr. 8vo. Pp. 466. 1913. Longmans. 6s.
- Durell, C. V.** A Concise Geometry. Cr. 8vo. Pp. 327. 1921. Bell. 5s.

- Durell, C. V.** *Modern Geometry. The Straight Line and Circle.* Cr. 8vo. Pp. 156. 1920. Macmillan. 6s.
- Eagles, T. H.** *Constructive Geometry of Plane Curves.* Cr. 8vo. Pp. 394. 1885. Macmillan. 12s.
- Edmondson, T. W.** *Deductions in Geometry. Riders and Practical Problems, with Full Solutions.* 5th imp. Cr. 8vo. Pp. 223. 1920. University Tutorial Press. 4s.
- Godfrey, C., and Siddons, A. W.** *Modern Geometry.* Cr. 8vo. Pp. 178. 1908. 6s. *Solutions.* 5s. 6d. Cambridge University Press.
- *Elementary Geometry, Practical and Theoretical.* 3rd edn. Cr. 8vo. Pp. 518. 1918. 2 Parts. 4s. each. Complete in 1 Vol. 7s. *Solutions* by E. A. Price. 3rd edn. 7s. 6d. Cambridge University Press.
- *A Shorter Geometry.* Cr. 8vo. Pp. 332. 1919. 4s. 6d. *Solutions* by E. A. Price. 6s. Cambridge University Press.
- *Practical Geometry and Theoretical Geometry.* Cr. 8vo. Pp. 396. 1920. Cambridge University Press. 7s.
- Hall, H. S., and Stevens, F. H.** *A School Geometry. Parts I-VI. Containing Plane and Solid Geometry, treated both theoretically and graphically.* New imp. Gl. 8vo. Pp. 476. 1920. 5s. Key. 10s. Macmillan.
- Lachlan, R.** *An Elementary Treatise on Modern Pure Geometry.* 8vo. Pp. 298. 1893. Macmillan. 9s.
- Lawson, G.** *A New Geometry for Schools.* Cr. 8vo. Pp. 260. 1914. Chambers. 2s. 6d.
- Low, D. A.** *Text-book on Practical Solid and Descriptive Geometry.* New imp. Cr. 8vo. 1920. Part 1. Pp. 120. 3s. Part 2. Pp. 140. 4s. Longmans.
- Mackay, J. S.** *Plane Geometry: Practical and Theoretical. (Corresponding to Euclid's Elements I-VI.)* Cr. 8vo. Pp. 388. 1905. Chambers. 3s. 6d.
- Millar, J. B.** *Elements of Descriptive Geometry.* 3rd edn. Cr. 8vo. Pp. 216. 1913. Macmillan. 7s.
- Milne, J. J.** *An Elementary Treatise on Cross-Ratio Geometry.* Cr. 8vo. Pp. 312. 1911. Cambridge University Press. 6s.
- Russell, J. W.** *Pure Geometry: an Elementary Treatise. New and Revised edn.* Cr. 8vo. Pp. 370. 1905. Oxford: Clarendon Press. 9s.
- *Sequel to Elementary Geometry.* Cr. 8vo. Pp. 208. 1907. 6s. *Solutions to the Examples (Key).* Cr. 8vo. Pp. 112. 1908. 10s. 6d. Oxford: Clarendon Press.
- Wilson, J. C.** *On the Traversing of Geometrical Figures.* 8vo. Pp. 166. 1905. Oxford: Clarendon Press. 6s. 6d.
- Workman, W. P., and Cracknell, A. G.** *The School Geometry. (Euclid I-VI.)* 2nd edn. Cr. 8vo. Pp. 439. 1920. University Tutorial Press. 6s.
- *Geometry, Theoretical and Practical.* Part 1. (Euclid, i; iii., 1-34; iv., 1-9.) 4th imp. Cr. 8vo. Pp. 368. 1919. 4s. Part 2. (Euclid, ii; iii., 35-37; iv., 10-16; vi.) 3rd imp. Cr. 8vo. Pp. 214. 1916, 3s. Part 3. (Euclid, xi.) 2nd imp. Cr. 8vo. Pp. 76. 1911. 2s. 3d. University Tutorial Press.

b. Conic Sections.

- Bryan, G. H., and Pinkerton, R. H.** *The Elements of the Geometry of the Conic.* Cr. 8vo. Pp. 270. Dent. 4s. 6d.
- Cockshott, A., and Walters, F. B.** *A Treatise on Geometrical Conics.* Cr. 8vo. Pp. 216. 1918. 6s. Key to ditto by O. Emtage. Cr. 8vo. Pp. 128. 1914. 6s. 6d. Macmillan.
- Drew, W. H.** *A Geometrical Treatise on Conic Sections.* Cr. 8vo. Pp. 178. 1898. Macmillan. 5s.
- Macaulay, F. S.** *Geometrical Conics.* 2nd ed. Cr. 8vo. Pp. 310. 1906. Cambridge University Press. 7s.

Milne, J., and Davis, R. F. Geometrical Conics. Cr. 8vo. Pp. 230. 1890. Macmillan. 4s. 6d.

Smith, C. Geometrical Conics. Cr. 8vo. Pp. 268. 1919. 7s. Key to ditto. Cr. 8vo. Pp. 150. 1904. 7s. Macmillan.

Smith, J. H. Geometrical Conic Sections. 9th imp. Cr. 8vo. Pp. 174. 1918. Longmans. 5s.

c. Solid Geometry.

Atkinson, E. H. De V. A Text-book of Practical Solid Geometry, etc., for the Use of the Royal Military Academy, Woolwich. New imp. 8vo. Pp. 134. 1914. Spon. 7s. 6d.

Davison, C. The Elements of Solid Geometry. Cr. 8vo. Pp. 130. 1920. Cambridge University Press. 4s.

Godfrey, C., and Siddons, A. W. Solid Geometry. Cr. 8vo. Pp. 120. 1920. 2s. 3d. Solutions by C. L. Beaven. 7s. 6d. Cambridge University Press.

Heath, R. S. Solid Geometry. Including the Mensuration of Surfaces and Solids. 4th edn. Cr. 8vo. Pp. 123. 1919. Rivington. 4s.

Unwin, P. W. Practical Solid Geometry. Cr. 8vo. Pp. 270. 1909. Bell. 5s.

d. Projective Geometry.

Cremona, L. Elements of Projective Geometry. Translated by C. Leudesdorf. 3rd edn. 8vo. Pp. 324. 1913. Oxford: Clarendon Press. 12s. 6d.

Filon, L. N. G. An Introduction to Projective Geometry. 2nd edn. Cr. 8vo. Pp. 255. 1916. Arnold. 7s. 6d.

Hatton, J. L. S. The Principles of Projective Geometry applied to the Straight Line and Conic. Roy. 8vo. Pp. 376. 1913. Cambridge University Press. 12s. 6d..

Mathews, G. B. Projective Geometry. Cr. 8vo. Pp. 364. 1914. Longmans. 6s.

Pickford, A. G. Elementary Projective Geometry. Cr. 8vo. Pp. 268. 1909. Cambridge University Press. 5s.

Smart, E. H. A First Course in Projective Geometry. Cr. 8vo. Pp. 298. 1913. Macmillan. 8s. 6d.

Whitehead, A. N. The Axioms of Projective Geometry. Demy 8vo. Pp. 72. 1913. Cambridge University Press. 3s.

xv. ANALYTICAL GEOMETRY.

Askwith, E. H. Analytical Geometry of the Conic Sections. 2nd edn. Demy 8vo. Pp. 443. 1918. Black. 10s. 6d.

Baker, W. M. Algebraic Geometry. A New Treatise on Analytical Conic Sections. 6th edn. Cr. 8vo. Pp. 369. 1919. 7s. 6d. Key. Pp. 224. 1907. 8s. 6d. Bell.

Bell, R. J. T. An Elementary Treatise on Co-ordinate Geometry of Three Dimensions. 2nd edn. 8vo. Pp. 412. 1918. Macmillan. 12s. 6d.

Briggs, W., and Bryan, G. H. The Right Line and Circle (Co-ordinate Geometry). 3rd edn. 14th imp. Cr. 8vo. Pp. 236. 1918. 5s. Key. 5s. University Tutorial Press.

—Worked Examples in Co-ordinate Geometry. 2nd edn. 4th imp. Cr. 8vo. Pp. 84. 1913. 2s. 3d. University Tutorial Press.

Coleman, P. Co-ordinate Geometry, an Elementary Course. Cr. 8vo. Pp. 240. 1913. Oxford: Clarendon Press. 3s. 6d.

Davison, C. The Elements of Analytical Conics. Cr. 8vo. Pp. 246. 1919. Cambridge University Press. 10s. 6d.

- Gibson, G. A., and Pinkerton, P.** Elements of Analytical Geometry. Cr. 8vo. Part 1. The Straight Line and Circle. Part 2. Graphs and Curve Tracing. Part 3. Conic Sections. Each 3s. 6d. or in 1 Vol. Cr. 8vo. Pp. 498. 1919. 8s. 6d. Macmillan.
- Grace, J. H., and Rosenberg, F.** Co-ordinate Geometry: an elementary treatise on the Straight Line, Circle, and Conic. 4th imp. Cr. 8vo. Pp. 412. 1919. University Tutorial Press. 6s. 6d.
- Hilton, H.** Plane Algebraic Curves. 8vo. Pp. 404. 1920. Oxford University Press. 28s. •
- Jones, A. C.** Introduction to Algebraical Geometry, with Answers. 8vo. Pp. 548. 1912. Oxford: Clarendon Press. 10s.
- Notes on Analytical Geometry, with Answers. Cr. 8vo. Pp. 176. 1903. Oxford: Clarendon Press. 6s.
- Loney, S. L.** Elements of Co-ordinate Geometry. 3rd edn. Cr. 8vo. Pp. 440. 1919. 7s. Key to ditto. Cr. 8vo. Pp. 268. 1917. 10s. Macmillan.
- Milne, J.** Analytical Geometry of the Straight Line and Circle. Cr. 8vo. Pp. 243. 1919. Bell. 5s. 6d.
- Salmon, G.** A Treatise on the Analytic Geometry of Three Dimensions. Revised by R. A. P. Rogers. 2 Vols. 8vo. Vol. 1. 6th edn. Pp. 494. 1914. 12s. 6d. Vol. 2. 5th edn. Pp. 350. 1915. 10s. 6d. Longmans.
- A Treatise on Conic Sections. 8vo. Pp. 416. 1917. Longmans. 14s.
- Scott, C. A.** Cartesian Plane Geometry: Analytical Conics. Cr. 8vo. Pp. 428. Dent. 6s. 6d.
- Smith, C.** An Elementary Treatise on Conic Sections by the Methods of Co-ordinate Geometry. Cr. 8vo. Pp. 460. 1920. 8s. 6d. Key to ditto. Cr. 8vo. Pp. 386. 1915. 12s. 6d. Macmillan.
- Smith, C.** An Elementary Treatise on Solid Geometry. Cr. 8vo. Pp. 258. 1917. Macmillan. 10s. 6d.
- Tuckey, C. O., and Nayler, W. A.** Analytical Geometry: A First Course. Cr. 8vo. Pp. 382. 1918. Cambridge University Press. 6s.
- xvi. PRACTICAL GEOMETRY AND GRAPHICS.**
- Bates, E. L., and Charlesworth, F.** Practical Geometry and Graphics. A Complete Course of Instruction for Technical Students and Practical Men. Cr. 8vo. Pp. 630. 1912. Batsford. 5s.
- Evans, T. J., and Pullen, W. W. F.** A Treatise on Practical Plane and Solid Geometry. Demy 8vo. 1898. Chapman and Hall. 10s.
- Harrison, J., and Baxandall, G. A.** Practical Geometry and Graphics for Advanced Students. 2nd edn. Gl. 8vo. Pp. 692. 1919. Macmillan. 7s. •
- Low, D. A.** Practical Geometry and Graphics. 8vo. Pp. 456. 1912. Longmans. 8s. 6d.
- Morris, I. H., and Husband, J.** Practical Plane and Solid Geometry. Cr. 8vo. Pp. 284. 1919. Longmans. 4s.
- Paynter, J. E.** Practical Geometry for Architects and Builders. Demy 8vo. Pp. 421. 1921. Chapman and Hall. 15s.
- Smith, R. H.** Graphics, or the Art of Calculating by Drawing Lines, applied to Mechanical Engineering. 8vo. Pp. 282. 1889. Longmans. 18s.
- xvii. MENSURATION.**
- Angles, J. W.** Mensuration for Marine and Mechanical Engineers. Cr. 8vo. Pp. 196. 1919. Longmans. 5s.
- Briggs, W., and Edmondson, T. W.** Mensuration and Spherical Geometry. 3rd edn. 9th imp. Cr. 8vo. Pp. 168. 1918. 5s. Key to Mensuration. 2s. 3d. University Tutorial Press.

Chivers, G. T. *Elementary Mensuration: with Answers.* 4th imp. Cr. 8vo. Pp. 344. 1917. Longmans. 6s.

Stevens, F. H. *Elementary Mensuration.* New imp. Gl. 8vo. Pp. 255. 1919. Macmillan. 4s.

Todhunter, I. *Mensuration for Beginners.* New imp. Pott. 8vo. Pp. 304. 1918. 3s. Key by F. L. M'Carthy. Cr. 8vo. 8s. 6d. Macmillan.

xviii. EUCLID.

Archibald, R. C. *Euclid's Book on Divisions of Figures.* Roy. 8vo. Pp. 196. 1915. Cambridge University Press. 10s.

Deakin, R. *Euclid. Books I—IV.* 2nd edn. 7th imp. Cr. 8vo. Pp. 348. 1919. 4s. Books V., VI., and XI. 4th imp. Cr. 8vo. Pp. 156. 1909. 2s. 3d. University Tutorial Press.

Hall, H. S., and Stevens, F. H. *A Text-Book of Euclid's Elements. Books I.—VI. and XI., XII.* New edn. Cr. 8vo. Pp. 470. 1918. Macmillan. 5s.

Heath, Sir T. L. *The First Book of Euclid in Greek.* Fcap. 8vo. Pp. 250. 1920. Cambridge University Press. 10s.

—*The Thirteen Books of Euclid's Elements.* Translated from the Text of Heiberg. Roy. 8vo. 3 Vols. Pp. 434., 436., 554. 1908. Cambridge University Press. 52s. 6d.

Hill, M. J. M. *The Theory of Proportion.* Demy 8vo. Pp. 128. 1914. Constable. 6s.

—*The Contents of the Fifth and Sixth Books of Euclid.* 2nd edn. Fcap. 4to. Pp. 186. 1908. Cambridge University Press. 8s.

Nixon, R. C. J. *Euclid Revised, containing the Essentials of the Elements of Plane Geometry as given by Euclid in his first Six books.* 3rd edn. 7th imp. Cr. 8vo. Pp. 448. 1915. Oxford: Clarendon Press. 6s.

Todhunter, I., and Loney, S. L. *The Elements of Euclid for the use of Schools and Colleges.* New edn. Cr. 8vo. Pp. 472. 1912. Macmillan. 5s.

xix. NON-EUCLIDEAN GEOMETRY.

Carslaw, H. S. *The Elements of Non-Euclidean Plane Geometry and Trigonometry.* Cr. 8vo. Pp. 192. 1916. Longmans. 6s.

Coolidge, J. L. *Non-Euclidean Geometry, the Elements.* 8vo. Pp. 292. 1909. Oxford: Clarendon Press. 15s.

Sommerville, D. M. Y. *The Elements of Non-Euclidean Geometry.* Demy 8vo. Pp. 274. 1914. Bell. 7s. 6d.

—*Bibliography of Non-Euclidean Geometry, including the Theory of Parallels, the Foundations of Geometry, and space of N dimensions.* Demy 8vo. Pp. 416. St. Andrew's University (Frowde). Paper Cover. 10s.

xx. TRIGONOMETRY. a. Elementary.

Abbott, P. *Numerical Trigonometry.* Cr. 8vo. Pp. 174. 1918. Longmans. 6s.

Adams, H. *Practical Trigonometry. For the Use of Engineers, Architects and Surveyors.* 3rd edn. Cr. 8vo. Pp. 78. 1919. Pitman. 5s.

Borchardt, W. G., and Perrott, A. D. *A New Trigonometry for Schools, with or without Answers.* 12th edn. Cr. 8vo. Pp. 420. 1919. 5s. 6d. Complete Key. Cr. 8vo. Pp. 423. 1916. 10s. Bell.

Briggs, W., and Bryan, G. H. *The Tutorial Trigonometry.* 2nd edn. 10th imp. Cr. 8vo. Pp. 334. 1920. University Tutorial Press. 5s.

Buck, R. C. *A Manual of Trigonometry, with Diagrams, Examples, and Exercises.* 5th edn. Cr. 8vo. Pp. 121. 1919. Griffin. 3s. 6d.

- Davison, C.** *A Class Book of Trigonometry.* Cr. 8vo. Pp. 208. 1916. Cambridge University Press. 4s. 6d.
- *Plane Trigonometry for Secondary Schools.* Cr. 8vo. Pp. 342. 1919. Cambridge University Press. 6s. 6d.
- Dunkley, W. G.** *Trigonometry for Engineers, with numerous worked practical examples.* Cr. 8vo. Pp. 179. 1920. Pitman. 5s.
- Goodwin, H. B.** *Plane and Spherical Trigonometry.* 11th imp. 8vo. Pp. 284. 1919. Longmans. 10s. 6d.
- Hall, H. S., and Knight, S. R.** *Elementary Trigonometry.* 4th edn. Gl. 8vo. Pp. 430. 1920. 5s. Key. Cr. 8vo. Pp. 315. 1919. 10s. Macmillan.
- Hobson, E. W., and Jessop, C. M.** *An Elementary Treatise on Plane Trigonometry.* Fcap. 8vo. Pp. 332. 1913. Cambridge University Press. 7s. 6d.
- Levett, R., and Davison, C.** *The Elements of Plane Trigonometry.* Gl. 8vo. Pp. 552. 1915. Macmillan. 8s.
- Lock, J. B.** *Elementary Trigonometry.* 6th edn. Gl. 8vo. Pp. 314. 1918. 5s. Key, for Teachers only. Pp. 236. 1910. 10s. 6d. *Higher Trigonometry.* 4th edn. Gl. 8vo. Pp. 226. 1919. 5s. Macmillan.
- **and Child, J. M.** *A New Trigonometry for Schools and Colleges.* Cr. 8vo. Pp. 500. 1911. Macmillan. 7s.
- Loney, S. L.** *The Elements of Trigonometry.* 4th edn. Fcap. 8vo. Pp. 265. 1920. Cambridge University Press. 4s. 6d.
- *Plane Trigonometry.* 11th edn. Cr. 8vo. Pp. 240. 1919. 10s. or in 2 Parts. Part 1. 6s. Solutions. 15s. Part 2. 5s. Solutions. 7s. 6d. Cambridge University Press.
- Maxwell, F. W.** *Trigonometry for the 1918 Examinations.* 3rd edn. Demy 8vo. Pp. 100. 1918. James Brown. 2s. 6d.
- Mercer, J. W.** *Numerical Trigonometry.* Cr. 8vo. Pp. 168. 1912. Cambridge University Press. 4s. 6d.
- *Trigonometry for Beginners.* Cr. 8vo. Pp. 367. 1919. Cambridge University Press. 6s.
- Palmer, J. H.** *Practical Logarithms and Trigonometry.* Gl. 8vo. Pp. 186. 1917. Macmillan. 5s.
- Piggot, H. E.** *Elementary Plane Trigonometry.* Cr. 8vo. Pp. 255. 1919. Constable. 7s. 6d.
- Reed, H. L.** *Plane Trigonometry.* 2nd edn. Cr. 8vo. Pp. 320. 1918. Bell. 5s.
- Smith, J. H.** *Elementary Trigonometry.* New imp. Cr. 8vo. Pp. 232. 1918. 6s. Key. 8s. Longmans.
- Swanwick, F. T.** *Elementary Trigonometry.* Cr. 8vo. Pp. 260. 1911. Cambridge University Press. 5s. 6d.
- Todhunter, I.** *Plane Trigonometry.* Revised by R. W. Hogg. Cr. 8vo. Pp. 414. 1919. 6s. Key to ditto. Cr. 8vo. Pp. 486. 1911. 12s. 6d. Macmillan.

b. Plane and Spherical.

- Carslaw, H. S.** *Plane Trigonometry. An Elementary Text-book for Higher Classes of Secondary Schools and for Colleges.* 2nd edn. Cr. 8vo. Pp. 322. (1914.) 1920. 5s. Key. Pp. 180. 1915. 8s. Macmillan.
- Davison, C.** *The Elements of Plane Trigonometry.* Cr. 8vo. Pp. 280. 1920. Cambridge University Press. 10s.
- Hobson, E. W.** *A Treatise on Plane Trigonometry.* 4th edn. Demy 8vo. Pp. 398. 1918. Cambridge University Press. 12s. 6d.
- Johnson, W. E.** *A Treatise on Trigonometry.* Cr. 8vo. Pp. 522. 1889. Macmillan. 8s. 6d.
- McClelland, W. J., and Preston, T.** *A Treatise on Spherical Trigonometry.* Cr. 8vo. Part 1. To the End of Solution of Triangles. Pp. 158. 1912. 5s. Part 2. Pp. 202. 1909. 6s. Macmillan.

Todhunter, I. Spherical Trigonometry for the Use of Colleges and Schools. Revised by J. G. Leathem. Cr. 8vo. Pp. 288. 1919. Macmillan. 8s. 6d.

xxi. ARITHMETIC.

Abbott, P. Exercises in Arithmetic and Mensuration. Cr. 8vo. 1919. With Answers. Pp. 620. 8s. 6d. Without Answers. Pp. 534. 6s. 6d. Longmans.

Baker, W. M., and Bourne, A. A. Public School Arithmetic. 5th edn. Cr. 8vo. Pp. 450. 1920. Bell. 5s. 6d.

Borchardt, W. G. Practical Arithmetic for Schools. With Answers. 5th edn. Cr. 8vo. Pp. 529. 1919. 5s. Key to the above. Cr. 8vo. Pp. 649. 1911. 10s. 6d. Rivington.

Brooksmith, J. Arithmetic in Theory and Practice. New imp. Cr. 8vo. Pp. 432. 1910. 5s. Key, for Teachers only. Cr. 8vo. 12s. 6d. Macmillan.

Castle, F. Workshop Arithmetic. Cr. 8vo. Pp. 182. 1919. Macmillan. 1s. 9d.

Clapham, C. B. Arithmetic for Engineers. 2nd edn. Demy 8vo. Pp. 477. 1920. Chapman & Hall. 7s. 6d.

Comrie, P., and Woodburn, W. New Commercial Arithmetic with Answers. Cr. 8vo. Pp. 224. Chambers. 2s. 6d.

Godfrey, C., and Price, E. A. Arithmetic. Cr. 8vo. Pp. 479. 1919. With answers 6s. Without answers 5s. 6d. Cambridge University Press.

Grant, F. L., and Hill, A. M. Commercial Arithmetic, with Answers. Cr. 8vo. Pp. 430. 1920. Longmans. 6s.

Hall, H. S., and Stevens, F. H. A School Arithmetic. New imp. Cr. 8vo. Pp. 552. 1920. With Answers 5s. 6d. Without Answers 4s. 6d. Key. Pp. 347. 1917. 12s. 6d. Macmillan.

Hall, H. S., and Stevens, F. H. Examples in Arithmetic. Taken from "A School Arithmetic," with or without Answers. New imp. Cr. 8vo. Pp. 330. 1919. 3s. 6d. Key. 12s. 6d. Macmillan.

Jones, H. S. A Modern Arithmetic with Graphic and Practical Exercises. New imp. Gl. 8vo. Pp. 676. 1918. With or without Answers. Macmillan. 5s.

Lock, J. B. Arithmetic for Schools. 5th edn. Gl. 8vo. Pp. 496. 1918. With or without Answers. 5s. Key. 12s. 6d. Macmillan.

Lodge, Sir O. J. Easy Mathematics, Chiefly Arithmetic. 4th imp. Cr. 8vo. Pp. 452. 1917. Macmillan. 5s.

Loney, S. L. Arithmetic for Schools. 2nd edn. New imp. Gl. 8vo. Pp. 530. 1919. With or without Answers. Macmillan. 5s.

O'Dea, J. J. The New Explicit Arithmetic in Theory and Practice. 4th edn. Cr. 8vo. Pp. 582. 1912. 8s. 6d. Also in two Parts. Part 1. 3s. 6d. Part 2. 5s. 6d. Longmans.

Pendlebury, C., and Robinson, F. E. New School Arithmetic, with or without Answers. 16th edn. Cr. 8vo. Pp. 512. 1918. Bell. 5s. 6d.

Punnett, M. Groundwork of Arithmetic. Cr. 8vo. Pp. 246. 1921. Longmans. 4s. 6d.

Smith, B. Arithmetic for Schools. New edn. Revised by W. H. H. Hudson. Cr. 8vo. Pp. 468. 1905. 5s. Key, for Teachers only. 10s. Macmillan.

Smith, J. H. A Treatise on Arithmetic, with Answers. 5s. 6d. Without Answers. 23rd imp. Cr. 8vo. Pp. 376. 1918. 5s. Key. 10s. Longmans.

Workman, W. P. The Tutorial Arithmetic, with Answers. 3rd edn. 14th imp. Cr. 8vo. Pp. 587. 1920. 6s. 6d. Key. 6s. 6d. University Tutorial Press.

Workman, W. P. The School Arithmetic (adapted from the Tutorial Arithmetic), with Answers. 2nd edn. 12th imp. Cr. 8vo. Pp. 555. 1919. 5s. 6d. Key. 6s. 6d. University Tutorial Press.

— and **Chope, R. H.** Worked Problems in Higher Arithmetic. Cr. 8vo. Pp. 152. 1904. University Tutorial Press. 3s.

xxii. LOGARITHMS AND SLIDE RULE.

Blaine, R. G. The Slide Rule as an aid in Calculating. 5th edn. Fcap. 8vo. Pp. 152. 1919. Spon. 3s. 6d.

Dunlop, H. C., and Jackson,† C. S. Slide-Rule Notes. Cr. 8vo. 1p. 136. 1913. Longmans. 3s. 6d.

Hoare, C. The Slide Rule and How to Use It. 8th edn. Cr. 8vo. Pp. 110. 1918. Crosby Lockwood. 4s.

Matthews, G. F. Manual of Logarithms. 8vo. Pp. 134. 1890. Macmillan. 5s.

O'Dea, J. J. An Elementary Treatise on Logarithms. Cr. 8vo. Pp. 70. 1903. Longmans. 2s.

Pickworth, C. N. Logarithms for Beginners. 7th edn. Cr. 8vo. Pp. 54. 1919. Emmott. 1s. 6d.

— The Slide Rule. A Practical Manual. 16th edn. Cr. 8vo. Pp. 133. 1919. Emmott. 3s. 6d.

Wolstenholme, J. Examples for Practice in the Use of Seven-Figure Logarithms. 8vo. Pp. 64. 1888. Macmillan. 5s.

xxiii. MATHEMATICAL AND PHYSICAL TABLES.

Abbott, P. Mathematical Tables and Formulæ. Cr. 8vo. Pp. 62. 1918. Longmans. 2s. 6d.

Babbage, C. Tables of Seven-Figure Logarithms of the Natural Numbers from 1 to 108,000. 8vo. Pp. 224. Spon. 6s.

Barlow's Tables of Squares and Cubes, Square Roots, Cube Roots and Reciprocals of all Integer Numbers up to 10,000 Cr. 8vo. Pp. 200. Spon. 6s.

Bottomley, J. T. Four Figure Mathematical Tables, comprising Logarithmic and Trigonometrical Tables, and Tables of Squares, Square Roots, and Reciprocals. 8vo. Pp. 60. 1920. Macmillan. 3s.

Buchanan, E. E. Tables of Squares, Containing the Square of every foot, inch, and sixteenth of an inch between one-sixteenth of an inch and fifty feet. 11th edn. 16mo. Pp. 102. Spon. 5s.

Castle, F. Five-Figure Logarithmic and other Tables. Fcap. 4to. Pp. 60. 1920. Macmillan. 1s. 3d.

— Logarithmic and other Tables for Schools. 8vo. Pp. 36. 1920. Macmillan. Paper, 6d. Cloth, 8d.

Chappell. Five Figure Mathematical Tables. Demy 8vo. Pp. 340. Chambers. 7s. 6d.

Clark, J. B. Mathematical and Physical Tables. 3rd edn. Cr. 8vo. Pp. 36. Oliver & Boyd, 9d.

Cracknell, A. G. (edited by) Mathematical Tables. 5th imp. Demy 8vo. Pp. 56. 1919. University Tutorial Press. 2s. 3d.

Dale, J. B. Five Figure Tables of Mathematical Functions. 8th imp. Demy 8vo. Pp. 106. Arnold. 4s. 6d.

Doberick, W. Hygrometric Tables for Use with Dry and Wet Thermometers. Cr. 4to. Pp. 17. 1917. Williams & Norgate. 2s. 6d.

Dommett, W. E., and Hird, H. C. Mathematical Tables. Cr. 8vo. Pp. 88. 1919. Pitman. 4s. 6d.

Freeman, N. H. Beaumé and Specific Gravity Tables for Liquids lighter than water. Cr. 8vo. Pp. 27. 1914. Spon. 2s. 6d.

Godfrey, C., and Siddons, A. W. Four-Figure Tables. Demy 8vo. Pp. 40. Cambridge University Press. 1s. 6d.

Hall, W. Tables and Constants to Four Figures. For use in Technical, Physical and Nautical Computation. Demy 8vo. Pp. 68. 1914. Cambridge University Press. 5s.

McAulay, A. Five-Figure Logarithmic and other Tables. 16mo. Macmillan, 3s.

Pryde, J. (edited by). Chambers' Mathematical Tables. Seven-Figure. Cr. 8vo. Pp. 400. Chambers. 6s.

Unwin, W. C. Short Logarithmic and other Tables. 6th edn. Cr. 4to. Pp. 43. 1917. Spon. 2s.

Woodward, C. J. A.B.C. Five-Figure Logarithms, for General Use. 2nd edn. Cr. 8vo. Pp. 116. Spon. 4s.

— A.B.C. Five-Figure Logarithms with Tables, for Chemists. Cr. 8vo. Spon. 3s. 6d.

Workman, W. P. Memoranda Mathematica: a synopsis of facts, formulae, and methods in Elementary Mathematics. With Five-Figure Logarithmic Trigonometrical Tables arranged by W. E. Paterson. Cr. 8vo. Pp. 278. 1912. Oxford: Clarendon Press. 6s.

Wrapson, J. P., and Gee, W. W. H. Mathematical Tables for the use of Students in Technical Schools and Colleges. Demy 8vo. 1919. Macmillan. 1s. 9d.

xxiv. STATISTICS.

Bowley, A. L. Elements of Statistics. 4th edn. Demy 8vo. Pp. 471. 1920. King. 24s.

— An Elementary Manual of Statistics. 3rd edn. Demy 8vo. Pp. 226. 1920. Macdonald & Evans. 7s. 6d.

Elderton, W. P., and E. M. Primer of Statistics. 3rd. edn. Cr. 8vo. Pp. 102. (1912). 1920. Black. 2s.

Higgs, H., and Yule, G. U. (Edited by). Statistics: by the late Sir Robert Giffen, written about the years 1898—1900. Demy 8vo. Pp. 500. 1913. Macmillan. 12s.

Jones, D. C. A First Course in Statistics. Demy 8vo. Pp. 296. 1921. Bell. 15s.

Mulhall, M. G. A Dictionary of Statistics. 4th edn. Super Roy. 8vo. Pp. 800. 1899. Routledge. 25s.

Webb, A. D. The New Dictionary of Statistics. A Complement to the 4th edn. of Mulhall's Dictionary of Statistics. Super Roy. 8vo. Pp. 700. 1911. Routledge. 25s.

Yule, G. U. An Introduction to the Theory of Statistics. 5th edn. Cr. 8vo. Pp. 413. 1919. Griffin. 12s. 6d.

MECHANICS.

i. GENERAL.

Ball, Sir R. S. Experimental Mechanics. 2nd edn. Cr. 8vo. Pp. 376. 1906. Macmillan. 7s.

Bowling, G. S. Laboratory Aids in Practical Mechanics for Elementary Students. Cr. 8vo. Pp. 108. 1921. Griffin. 4s.

Briggs, W., and Bryan, G. H. Matriculation Mechanics. 3rd edn. 13th imp. Cr. 8vo. Pp. 371. 1919. 5s. Key. 4s. University Tutorial Press.

Capito, C. A. A. A Text-Book of Mathematics and Mechanics: specially arranged for the Use of Students Qualifying for Science and Technical Examinations. 2 Pts. 2nd edn. Cr. 8vo. Pt. 1. Mathematics. Pp. 181. Pt. 2. Mechanics. Pp. 240. Griffin. 7s. 6d. each Vol.

Cox, J. Mechanics. Demy 8vo. Pp. 346. 1919. Cambridge University Press. 12s. 6d.

Dobbs, W. J. Examples in Elementary Mechanics, Practical, Graphical and Theoretical. Cr. 8vo. Pp. 356. 1908. Methuen. 7s. 6d.

Duncan, J. Mechanics and Heat. Cr. 8vo. Pp. 398. 1920. Macmillan. 5s.

Glazebrook, Sir R. T. Mechanics and Hydrostatics. An Elementary Text Book. Cr. 8vo. Pp. 490. 1918. 9s. also in Parts. 1. Dynamics. 4s. 6d. 2. Statics. 4s. 3. Hydrostatics. 3s. Cambridge University Press.

Goodwill, S. G. Elementary Mechanics. Cr. 8vo. Pp. 230. 1913. Oxford: Clarendon Press. 5s.

Gregory, Sir R. A., and Hadley, H. E. A Manual of Mechanics and Heat. Cr. 8vo. Pp. 318. 1918. Macmillan. 4s.

Hertz, H. Principles of Mechanics Presented in a New Form. Translated by D. E. Jones and J. T. Walley. 8vo. Pp. 304. 1899. Macmillan. 12s. 6d.

Hopkinson, Bertram. The Scientific Papers of. * Collected and Arranged by Sir J. A. Ewing and Sir J. Larmor. Roy. 8vo. Pp. 508. 1921. Cambridge University Press. 63s.

Lamb, H. Higher Mechanics. Demy 8vo. Pp. 282. 1920. Cambridge University Press. 25s.

Lodge, Sir O. J. Elementary Mechanics, including Hydrostatics and Pneumatics. New edn., revised by A. Lodge and C. S. Lodge. Cr. 8vo. Pp. 324. N.D. Chambers. 4s. 6d.

Loney, S. L. Mechanics and Hydrostatics for Beginners. 16th edn. Fcap. 8vo. Pp. 313. 1920. Cambridge University Press. 5s.

Love, A. E. H. Theoretical Mechanics. 2nd edn. Demy 8vo. Pp. 383. 1906. Cambridge University Press. 12s.

Magnus, Sir P. Lessons in Elementary Mechanics: Introductory to the Study of Physical Science. Cr. 8vo. Pp. 393. 1920. Longmans. 4s. 6d.

Morley, A. Mechanics for Engineers: a Text-book of Intermediate Standard. 5th edn. Cr. 8vo. Pp. 302. 1919. Longmans. 6s. 6d.

Parker, G. W. Elements of Mechanics. 2nd edn. 8vo. Pp. 280. 1921. Longmans. 6s. 6d.

- Parkinson, S.** *An Elementary Treatise on Mechanics*. 6th edn. Cr. 8vo. Pp. 428. 1881. Macmillan. 9s. 6d.
- Porter, A. W.** *An Intermediate Course of Mechanics*. Cr. 8vo. Pp. 422. 1905. Murray. 7s. 6d.
- Prescott, J.** *Mechanics of Particles and Rigid Bodies*. 8vo. Pp. 544. 1913. Longmans. 14s.
- Routh, E. J.** *A Treatise on the Stability of a Given State of Motion; particularly Steady Motion*. 8vo. Pp. 120. 1877. Macmillan. 10s.
- Stelfox, S. H.** *The Laws of Mechanics. A Supplementary Text Book*. Cr. 8vo. Pp. 212. 1920. Methuen. 6s.
- Taylor, J. E.** *Theoretical Mechanics, including Hydrostatics and Pneumatics*. 11th imp. Cr. 8vo. Pp. 274. 1919. Longmans. 4s.
- Thornton, A.** *Theoretical Mechanics—Solids, Including Kinematics, Statics and Kinetics*. 5th imp. Cr. 8vo. Pp. 462. 1909. Longmans. 6s.
- Wells, S. H.** *Practical Mechanics. An Elementary Manual for the Use of Students in Science and Technical Schools*. 7th edn. Cr. 8vo. Pp. 232. 1918. Methuen. 5s.
- ii. STATICS AND DYNAMICS.**
- Andrews, E. S.** *Elements of Graphical Dynamics. An Elementary Text Book for Students of Mechanics and Engineering*. Demy 8vo. Pp. 200. 1919. Chapman & Hall. 10s. 6d.
- Baker, W. M.** *Elementary Dynamics*. 7th edn. Cr. 8vo. Pp. 318. 1917. 6s. Key. Pp. 262. 1907. 10s. 6d. Bell.
- Ball, Sir R. S.** *A Treatise on the Theory of Screws*. Roy. 8vo. Pp. 561. 1900. Cambridge University Press. 23s.
- Barnard, R. J. A.** *Elementary Dynamics of the Particle and Rigid Body*. Cr. 8vo. Pp. 382. 1916. Macmillan. 6s.
- Barton, E. H.** *Analytical Mechanics; comprising the Kinetics and Statics of Solids and Fluids*. 8vo. Pp. 556. 1911. Longmans. 12s. 6d.
- Besant, W. H., and Ramsey, A. S.** *A Treatise on Dynamics*. New edn. 8vo. Pp. 443. 1914. Bell. 12s.
- Borchardt, W. G.** *Elementary Statics, with or without Answers*. Cr. 8vo. Pp. 427. 1915. 5s. Key. Cr. 8vo. Pp. 416. 10s. 6d. Rivington.
- *School Mechanics*. Vol. 1. *School Statics*. Cr. 8vo. Pp. 294. 1919. 6s. Vol. 2. *School Dynamics*. Cr. 8vo. Pp. 312. 1920. 6s. Rivington.
- Briggs, W., and Bryan, G. H.** *The Tutorial Statics*. 3rd edn. 10th imp. Cr. 8vo. Pp. 376. 1919. University Tutorial Press. 5s.
- *The Tutorial Dynamics*. 2nd edn. 11th imp. Cr. 8vo. Pp. 424. 1919. University Tutorial Press. 5s.
- Crawford, W. J.** *Elementary Graphic Statics*. Cr. 8vo. Pp. 139. 1911. Griffin. 3s.
- Cremona, L.** *Graphical Statics, being two Treatises on the Graphical Calculus and Reciprocal Figures*. Translated by T. H. Beare. 8vo. Pp. 178. 1893. Oxford: Clarendon Press. 8s. 6d.
- Dobbs, W. J.** *A Treatise on Elementary Statics*. 2nd edn. Cr. 8vo. Pp. 311. 1915. Black. 7s. 6d.
- *Elementary Geometrical Statics*. Gl. 8vo. Pp. 352. 1897. Macmillan. 8s. 6d.
- Fawdry, R. C.** *Statics*. 3rd edn. Cr. 8vo. Pp. 330. 1920. Bell. 6s.
- *Dynamics*. 2nd edn. Cr. 8vo. Pp. 370. 1919. Bell. 6s.
- *Statics and Dynamics—First Parts*. Cr. 8vo. Pp. 350. 1919. Bell. 6s.
- Gray, A., and J. G.** *A Treatise on Dynamics*. Cr. 8vo. Pp. 646. 1911. Macmillan. 15s.
- Hardy, E.** *The Elementary Principles of Graphic Statics*. 2nd edn. Cr. 8vo. Pp. 206. 1909. Batsford. 4s.

- Heath, R. S.** *Elementary Statics, and its Applications.* Cr. 8vo. Pp. 296. 1913. Oxford: Clarendon Press. 5s.
- Hicks, W. M.** *Elementary Dynamics of Particles and Solids.* Cr. 8vo. Pp. 432. 1917. Macmillan. 7s. 6d.
- Jackson, C. S., and Milne, R. M.** *A First Statics.* Cr. 8vo. Pp. 372. Dent. 5s. 6d.
- **and Roberts, W. M.** *A First Dynamics.* 2nd edn. Cr. 8vo. Pp. 412. 1913. Dent. 6s. 6d.
- Lamb, H.** *Dynamics.* Demy 8vo. Pp. 356. 1914. Cambridge University Press. 15s.
- *Statics, including Hydrostatics and the Elements of the Theory of Elasticity.* Demy 8vo. Pp. 356. 1916. Cambridge University Press. 14s.
- Landon, J. W.** *Elementary Dynamics. A Text-Book for Engineers.* Cr. 8vo. Pp. 254. 1920. Cambridge University Press. 10s. 6d.
- Lock, J. B.** *Elementary Dynamics and Statics.* Gl. 8vo. Pp. 574. 1914. Macmillan. 7s. 6d.
- Loney, S. L.** *The Elements of Statics and Dynamics.* 15th edn. Fcap. 8vo. Pp. 606. 1919. 10s. Also separately. *Statics.* 5s. 6d. *Dynamics.* 5s. 6d. *Solutions.* 9s. Cambridge University Press.
- *Treatise on Elementary Dynamics.* 9th edn. Cr. 8vo. Pp. 297. 1917. 8s. *Solutions.* 8s. 6d. Cambridge University Press.
- *An Elementary Treatise on Statics.* 2nd edn. Demy 8vo. Pp. 401. 1920. Cambridge University Press. 14s.
- *An Elementary Treatise on the Dynamics of a Particle and of Rigid Bodies.* 2nd edn. Demy 8vo. Pp. 382. 1919. Cambridge University Press. 14s.
- Macgregor, J. G.** *Elementary Treatise on Kinematics and Dynamics.* 2nd edn. Cr. 8vo. Pp. 652. 1909. Macmillan. 12s. 6d.
- Michaelis, D. M. L.** *The Dynamics of Surfaces. An Introduction to the Study of Biological Surface Phenomena.* Translated by W. H. Perkins. Demy 8vo. Pp. 118. 1914. Spon. 4s. 6d.
- Minchin, G. M.** *A Treatise on Statics with Applications to Physics.* 2 vols. 8vo. Vol. 1. *Equilibrium of Coplanar Forces.* 7th edn. Pp. 476. 1915. Vol. 2. *Non-Coplanar Forces.* 5th edn. revised by H. T. Gerrans. Pp. 378. 1915. Oxford: Clarendon Press. 12s. each.
- Norwell, A.** *Elementary Applied Mechanics (Statics).* Cr. 8vo. Pp. 256. 1908. Longmans. 4s.
- Pinkerton, R. H.** *Dynamics and Hydrostatics.* 11th edn. Cr. 8vo. Pp. 310. N.D. Blackie. 3s. 6d.
- Pirie, G.** *Lessons on Rigid Dynamics.* Cr. 8vo. Pp. 196. 1875. Macmillan. 6s.
- Robinson, J. L.** *Elements of Dynamics (Kinetics and Statics).* 7th imp. Cr. 8vo. Pp. 462. 1911. Longmans. 7s. 6d.
- Routh, E. J.** *A Treatise on the Dynamics of a System of Rigid Bodies, with numerous Examples.* Vol. 1. *The Elementary Part.* 7th edn. 8vo. Pp. 460. 1913. Macmillan. 17s.
- *A Treatise on Analytical Statics.* 2 vols. 2nd edn. Demy 8vo. Vol. 1. Pp. 403. 1909. Vol. 2. Pp. 390. 1909. Cambridge University Press. 15s. each.
- Sprague, E. H.** *The Elements of Graphic Statics.* Cr. 8vo. Pp. 200. 1917. Scott, Greenwood. 5s.
- Tait, P. G., and Steele, W. J.** *A Treatise on the Dynamics of a Particle.* 7th edn. Cr. 8vo. Pp. 428. 1900. Macmillan. 14s.
- Tuckey, C. O., and Nayler, W. A.** *Statics: A First Course.* Cr. 8vo. Pp. 300. 1916. Oxford: Clarendon Press. 4s.
- Whittaker, E. T.** *A Treatise on the Analytical Dynamics of Particles and Rigid Bodies.* 2nd edn. Roy. 8vo. Pp. 444. 1917. Cambridge University Press. 17s. 6d.

Wight, J. T. *Elementary Graphic Statics.* Cr. 8vo. 1913. Pitman. 5s.

Williamson, B., and Tarleton, F. A. *An Elementary Treatise on Dynamics: containing Applications to Thermodynamics.* 3rd edn. Cr. 8vo. Pp. 576. 1900. Longmans. 10s. 6d.

Worthington, A. M. *Dynamics of Rotation; an Elementary Introduction to Rigid Dynamics.* Cr. 8vo. Pp. 192. 1920. Longmans. 6s. 6d.

iii. HYDROSTATICS AND HYDRODYNAMICS.

Barton, E. H. *An Introduction to the Mechanics of Fluids.* 8vo. Pp. 264. 1915. Longmans. 8s. 6d.

Besant, W. H., and Ramsey, A. S. *A Treatise on Hydromechanics.* Demy 8vo. Part 1. *Hydrostatics.* 8th edn. Pp. 232. 1919. 12s. Part 2. *Hydrodynamics.* 15s. Bell.

Briggs, W., and Bryan, G. H. *Matriculation Hydrostatics.* 2nd edn. 11th imp. Cr. 8vo. Pp. 216. 1919. 4s. Key. 2s. 3d. University Tutorial Press.

— *Intermediate Hydrostatics.* 6th edn. Cr. 8vo. Pp. 272. 1919. University Tutorial Press. 5s.

De Villamil, R. *A B C of Hydrodynamics.* 8vo. Pp. 135. 1912. Spon. 8s. 6d.

Greaves, J. *A Treatise on Elementary Hydrostatics.* Cr. 8vo. Pp. 218. 1919. 7s. *Solutions.* 6s. Cambridge University Press.

Greenhill, Sir A. G. *Treatise on Hydrostatics.* Cr. 8vo. Pp. 544. 1894. Macmillan. 8s. 6d.

Lamb, H. *Hydrodynamics.* 4th edn. Roy. 8vo. Pp. 714. 1916. Cambridge University Press. 27s. 6d.

Loney, S. L. *The Elements of Hydrostatics.* 5th edn. Fcap. 8vo. Pp. 272. 1918. 5s. 6d. *Solutions.* 6s. Cambridge University Press.

Minchin, G. M. *A Treatise on Hydrostatics.* 2 Vols. 2nd edn. Cr. 8vo. 1912. Vol. 1. *Elementary Part.* Pp. 204. 5s. Vol. 2. *Advanced Part.* Pp. 184. 6s. Oxford: Clarendon Press.

Parker, G. W. *Elements of Hydrostatics.* Cr. 8vo. Pp. 158. 1912. Longmans. 4s. 6d.

Pinkerton, R. H. *Hydrostatics and Pneumatics.* Cr. 8vo. Pp. 344. N.D. Blackie. 4s. 6d.

Sanderson, F. W. *Hydrostatics for Beginners.* New Imp. Gl. 8vo. Pp. 288. 1912. Macmillan. 3s.

iv. APPLIED MECHANICS.

Alexander, T., and Thomson, A. W. *Elementary Applied Mechanics.* 3rd edn. 8vo. Pp. 532. 1916. Macmillan. 15s.

Andrews, E. S. *An Introduction to Applied Mechanics.* 2nd imp. Demy 8vo. Pp. 316. 1920. Cambridge University Press. 7s. 6d.

Aughtie, H. *Applied Mechanics.* 2nd imp. Demy 8vo. Book 1. Pp. 184. 1919. Book 2. Pp. 227. 1918. Routledge. 3s. 6d. each.

Bates, E. L., and Charlesworth, F. *Mechanics for Builders.* 2 Parts. Cr. 8vo. Pp. 210. 1913. Longmans. 4s. each.

Cotterill, J. H. *Applied Mechanics: An Elementary General Introduction to the Theory of Structures and Machines.* 6th edn. 8vo. Pp. 672. 1906. Macmillan. 21s.

— and **Slade, J. H.** *Lessons in Applied Mechanics.* Fcap. 8vo. Pp. 534. 1919. Macmillan. 6s. 6d.

Cryer, T., and Jordan, H. G. *Text-Book of Applied Mechanics.* 9th edn. Pp. 320. 1920. Heywood. 5s.

Duncan, J. *Applied Mechanics for Engineers.* 8vo. Pp. 732. 1913. Macmillan. 10s. 6d.

— *Applied Mechanics for Beginners.* New imp. Gl. 8vo. Pp. 345. 1920. Macmillan. 3s. 6d.

Goodman, J. *Mechanics Applied to Engineering.* 9th edn. Large Cr. 8vo. Pp. 864. 1919. Longmans. 14s. 6d.

Graham, J. *Applied Mechanics. Including Hydraulics and the Theory of the Steam Engine.* 2nd edn. Cr. 8vo. Pp. 312. 1917. Arnold. 5s. 6d.

Jamieson, A. *Elementary Manual of Applied Mechanics.* 15th edn. Revised by E. S. Andrews. Cr. 8vo. Pp. 413. 1921. Griffin. 6s.

— and **Andrews, E. S.** *A Text-book of Applied Mechanics and Mechanical Engineering.* Large Cr. 8vo. Vol. I., *Applied Mechanics.* 11th edn. Pp. 371. 1919. 6s.; Vol. II., *Strength of Materials.* 9th edn. Pp. 332. 1918. 6s.; Vol. III., *Theory of Structures.* 10th edn. Pp. 278. 1920. 5s. Vol. IV., *Hydraulics.* 9th edn. Pp. 340. 1921. 5s.; Vol. V., *Theory of Machines.* 9th edn. in preparation. Griffin.

Low, D. A. *Applied Mechanics: embracing Strength and Elasticity of Materials, Theory and Design of Structures, Theory of Machines and Hydraulics.* A Text-book for Engineering Students. 6th imp. 8vo. Pp. 559. 1921. Longmans. 12s. 6d.

Mackenzie, T. *Practical Mechanics: applied to the Requirements of the Sailor.* 5th edn. Cr. 8vo. Pp. 187. 1920. Griffin. 3s. 6d.

Morley, A., and Inchley, W. *Elementary Applied Mechanics.* Cr. 8vo. Pp. 390. 1919. Longmans. 6s.

Pullen, W. W. F. *Mechanics: Theoretical, Applied, and Experimental.* 4th imp. Cr. 8vo. Pp. 390. 1917. Longmans. 6s. 6d.

Rankine, W. J. M. *A Manual of Applied Mechanics.* Revised by W. J. Millar. 20th edn. Cr. 8vo. Pp. 694. 1919. Griffin. 12s. 6d.

Spon's Mechanics' Own Book: a Manual for Handicraftsmen and Amateurs. 7th edn. Demy 8vo. Pp. 714. 1921. Spon. 10s. 6d.

v. MECHANISM.

Cassell's Cyclopædia of Mechanics. Edited by Paul N. Hasluck. 5 vols. Super Roy. 8vo. Pp. 384 each vol. 1914. Cassell. 3s. each vol.

Dunkerley, S. *Mechanism, for Use in University and Technical Colleges.* 3rd edn. 8vo. Pp. 456. 1919. Longmans. 14s. 6d.

Goodeve, T. M. *The Elements of Mechanism.* Cr. 8vo. Pp. 366. 1912. Longmans. 7s. 6d.

McKay, R. F. *The Theory of Machines.* 2nd edn. Demy 8vo. Pp. 448. 1920. Arnold. 20s.

vi. STRENGTH AND ELASTICITY OF MATERIALS.

Anderson, Sir J. *The Strength of Materials and Structures.* Cr. 8vo. Pp. 322. 1914. Longmans. 5s.

Andrews, E. S. *The Strength of Materials. A Text-book for Engineers and Architects.* Demy 8vo. Pp. 604. 1916. Chapman and Hall. 13s. 6d.

— *Elementary Strength of Materials.* Demy 8vo. Pp. 216. 1916. Chapman and Hall. 7s.

— *The Stresses in Hooks and other Curved Beams.* Demy 8vo. 1920. Pitman. 6s.

— and **Pearson, K.** *On a Theory of the Stresses in Crane and Coupling Hooks with Experimental Comparison with Existing Theory.* Pp. 28. 1904. Cambridge University Press. 3s.

Box, T. *A Practical Treatise on the Strength of Materials, their Elasticity, and Resistance to Impact.* 4th edn. Cr. 8vo. Pp. 536. 1902. Spon. 12s. 6d.

Clapham, C. B. *Engineer's Handbook of Strengths.* Demy 8vo. In preparation. Chapman and Hall.

Ewing, Sir J. A. *The Strength of Materials.* 2nd edn. Demy 8vo. Pp. 246. 1914. Cambridge University Press. 12s. 6d.

Humber, W. Handy book for the Calculation of Strains in Girders, and Similar Structures, and their Strength. 6th edn. Cr. 8vo. Pp. 81. 1903. Crosby Lockwood. 7s. 6d.

Morley, A. Strength of Materials. 5th edn. 8vo. Pp. 566. 1919. Longmans. 14s.

Popplewell, W. C. Strength of Materials. A Manual for Engineering Students. 8vo. Pp. 192. 1907. Gurney and Jackson. 5s.

—Testing and Strength of Materials of Construction. New edition in preparation. Scientific Pub. Co.

Searle, G. F. C. Experimental Elasticity. A Manual for the Laboratory. Demy 8vo. Pp. 204. 1920. Cambridge University Press. 8s.

Smith, C. A. A Handbook of Testing. Vol. 1. Materials. 2nd edn. Demy 8vo. Pp. 298. 1920. Constable. 14s.

Sprague, E. H. The Strength of Structural Elements. Cr. 8vo. Pp. 200. 1917. Scott, Greenwood. 5s.

—Moving Loads by Influence Lines and other Methods. Cr. 8vo. Pp. 172. 1918. Scott, Greenwood. 5s.

Unwin, W. C. The Testing of Materials of Construction. A Text-book for the Engineering Laboratory and a Collection of the Results of Experiment. 3rd. edn. 8vo. Pp. 490. 1910. Longmans. 21s.

Woods, R. J. The Strength and Elasticity of Structural Members. 2nd edn. Demy 8vo. Pp. 322. Arnold. 14s.

vii. MATHEMATICAL THEORY OF ELASTICITY.

Andrews, E. S. Elastic Stresses in Structures. Translated from Castiglano's "Théorème de l'Equilibre des Systèmes Élastiques et ses Applications." Roy. 8vo. Pp. 376. 1919. Scott, Greenwood. 25s.

Love, A. E. H. A Treatise on the Mathematical Theory of Elasticity. 3rd edn. Roy. 8vo. Pp. 642. 1920. Cambridge University Press. 37s. 6d.

Todhunter, I. A History of the Theory of Elasticity. Edited by K. Pearson. Demy 8vo. Vol. 1. Galilei to Saint Venant. Pp. 939. 1886. 29s. Vol. 2. Saint-Venant to Lord Kelvin. (2 Parts). Pp. 777., 568. 1893. 37s. 6d. Cambridge University Press.

Young, A. W., Elderton, E. M., and Pearson, K. On the Torsion resulting from Flexure in Prisms with Cross-Sections of Uni-Axial Symmetry only. Pp. 75. 1918. Cambridge University Press. 7s. 6d.

viii. THEORY AND DESIGN OF STRUCTURES.

Andrews, E. S. The Theory and Design of Structures. 3rd edn. Demy 8vo. Pp. 618. 1920. Chapman & Hall. 13s. 6d.

—Further Problems in the Theory and Design of Structures. 2nd edn. Demy 8vo. Pp. 236. Chapman & Hall. 10s.

Atherton, W. H. An Introduction to the Design of Beams, Girders, and Columns in Machines and Structures, with Examples in Graphic Statics. Large 8vo. Pp. 250. 1905. Griffin. 7s. 6d.

Bamford, H. Moving Loads on Railway Underbridges. Fcap. 4to. Pp. 78. 1907. Pitman. 5s. 6d.

Bell, G. J. A Practical Treatise on Segmental and Elliptical Oblique or Skew Arches. 2nd edn. 8vo. Pp. 125. 1906. Spon. 21s.

Chalmers, J. B. Graphical Determination of Forces in Engineering Structures. 8vo. Pp. 442. 1881. Macmillan. 24s.

Morley, A. Theory of Structures. New imp. 8vo. Pp. 596. 1920. Longmans. 14s.

- Pearson, K., Reynolds, W. D., and Stanton, W. F.** On a Practical Theory of Elliptic and Pseudo-elliptic Arches, with special reference to the Ideal Masonry Arch. Pp. 24. 1909. Cambridge University Press. 4s.
- Alexander, J.** Lead. Weights and Measurements of Sheet Lead. 32mo. Spon. 1s. 6d.
- Brook, J.** French Measure and English Equivalents. For the Use of Engineers, Manufacturers of Iron, Draughtsmen, etc. 2nd edn. Fcap. 16mo. Pp. 80. Spon. 2s.

- Pullen, W. W. F.** Application of Graphic Methods to the Design of Structures. 2nd edn. Cr. 8vo. Pp. 340. 1905. Technical Pub. Co. 6s. 9d.

- Woods, R. J.** The Theory of Structures. Demy 8vo. Pp. 288. 1914. Arnold. 12s. 6d.

- Clapham, C. B.** Metric System for Engineers. Demy 8vo. in preparation. Chapman & Hall.

- Clark, L.** A Dictionary of Metric and other Useful Measures. Cr. 8vo. Pp. 113. Spon. 6s. 6d.

- Delbos, L.** The Metric System. A Practical Manual. Cr. 8vo. Pp. 144. 1900. Methuen. 3s.

- Dommett, W. E.** (edited by). Metric Conversion Tables. Cr. 8vo. Pp. 50. 1918. Pitman. 2s. 6d.

- Elliott, A. W. M.** Rectangular Areas. A Useful Reference Work for Tinplate Manufacturers, Tinplate Merchants, Tin Box Makers, Wood Case Makers, and those engaged in Tinplate Industries. Cr. 8vo. Pp. 104. Scott, Greenwood. 7s. 6d.

- Golding, H. A.** Bonus Tables: For Calculating Wages on the Bonus or Premium Systems. For Engineering, Technical and Allied Trades. Super Roy. 8vo. 1903. Griffin. 9s.

- Koczorowski, Lt.** English Prices with German Equivalents. Calculated at Seven Rates of Exchange in Marks per Kilogramme. Giving rate per lb., and equivalents per ton. Fcap. 16mo. Pp. 95. Spon. 1s. 6d.

- Lambert, S.** English Prices with Spanish Equivalents. Calculated at Seven Rates of Exchange in Pesetas per Kilogramme, giving rate per lb., and equivalents per ton. Fcap. 16mo. Pp. 95. Spon. 1s. 6d.

- Logan, F. W. A.** English Weights, with their Equivalents in Kilogrammes calculated from one pound to one ton by pounds, and from one ton to 100 tons by tons. Fcap. 16mo. Pp. 96. Spon. 1s. 6d.

ix. GYROSTATICS.

- Chalmers, T. W.** The Gyroscopic Compass. A Non-Mathematical Treatment. Demy 8vo. Pp. 177. 1920. Constable. 11s.

- Chatley, H.** Practical Gyrostatic Balancing. Cr. 8vo. Pp. 72. 1912. Technical Pub. Co. 2s. 9d.

- Crabtree, H.** An Elementary Treatment of the Theory of Spinning Tops and Gyroscopic Motion. 2nd edn. 8vo. Pp. 210. 1914. Longmans. 9s.

- Gray, A.** A Treatise on Gyrostatics and Rotational Motion. Theory and Applications. Super Roy. 8vo. Pp. 550. 1918. Macmillan. 42s.

- Johnson, V. E.** The Gyroscope: An Experimental Study from Spinning Top to Mono Rail. Cr. 8vo. Pp. 52. 1911. Spon. 2s. 6d.

- Perry, J.** Spinning Tops and the Use of Gyrostats and the Gyro-Compass. Post 8vo. Pp. 155. 1919. S.P.C.K. 2s. 6d.

x. MEASUREMENTS— WEIGHTS AND CALCULATIONS.

- Adiassewich, A.** English Prices with Russian Equivalents. Calculated at Fourteen Rates of Exchange in Roubles per Pood, giving rate per lb., and equivalents per ton. Fcap. 16mo. Pp. 182. Spon. 1s. 6d.

- McCartney, H. P.** Metric Weights with English Equivalents. Fcap. 16mo. Pp. 84. Spon. 1s. 6d.
- English Prices with French Equivalents. Calculated at Seven Rates of Exchange in Francs. Gold per 100 Kilos., giving rate per lb., and equivalents per ton. Fcap. 16mo. Pp. 97. Spon. 1s. 6d.
- Molesworth, Sir G. L.** Metric Tables. 5th edn. Fcap. 16mo. Pp. 116. 1918. Spon. 2s. 6d.
- Decimal Tables, for Engineering and Commercial Calculations. Fcap. 16mo. Pp. 126. 1919. Spon. 2s. 6d.
- O'Toole, I.** Tables of Seamless Copper Tubes. Oblong 16mo. Pp. 69. 1908. Spon. 3s. 6d.
- Peddie, A.** The Practical Measurer. A Series of Tables for the Use of Wood Merchants, Builders, Carpenters, Joiners, Sawyers, Plasterers, Painters, Masons, Bricklayers, etc. Cr. 8vo. Pp. 448. N.D. Blackie. 7s. 6d.
- Perkin, F. M.** The Metric and British Systems of Weights, Measures, and Coinage. 8vo. Pp. 84. 1907. Pitman. 3s. 6d.
- Robertson, J.** A Dictionary for International Commercial Quotations. To translate units of value from one currency, weight, and measure direct into another, including exchange. Cr. 4to. Vol. 1. British and European Standards. Pp. 224. 1914. 63s. Vol. 2. British and North and South American Standards. Pp. 228. 1919. 84s. Oxford University Press.
- Rossetti, G. A.** Metric-English and English-Metric Lengths. Fcap. 16mo. Pp. 92. Spon. 1s. 6d.
- Rownson.** Iron Merchants' Tables and Memoranda, Weights and Measures. Oblong 32mo. Pp. 86. Spon. 5s.
- Slack, J. E., and Dorey, A.** "At a Glance." Twelve Conversion Tables for International Values of British, Metric and Russian Weights and Measures, Temperatures, and Dates. 8vo. Pp. 76. 1918. Technical Pub. Co. 7s. 6d.
- Smith, R. H.** Measurement Conversions (English and French): 43 Graphic Tables or Diagrams. 4to. 1895. Griffin. 7s. 6d.
- Stobbs, T.** Wire and Sheet Gauge Tables. 2nd edn. Cr. 8vo. Pp. 115. 1926. Spon. 5s.
- Taylor, T.** Gauges at a Glance. Containing all the Principal Gauges of the different Metals, Tinplate Substances, etc., collated and compared. 4th edn. Oblong 8vo. Pp. 82. 1918. Spon. 6s.

MACHINE DRAWING, DESIGN, DRAUGHTSMANSHIP.

i. GENERAL.

- Barker, A. H.** Graphic Methods of Engine Design. 2nd edn. Cr. 8vo. Pp. 210. 1899. Technical Pub. Co. 4s. 9d.
- Bowers, R. S.** Drawing and Design for Craftsmen. Demy 8vo. Pp. 416. 1919. Cassell. 8s. 6d.
- Castle, F.** Machine Construction and Drawing. Gl. 4to. Pp. 306. 1920. Macmillan. 5s.
- A Manual of Machine Design. Cr. 8vo. Pp. 361. 1919. Macmillan. 7s. 6d.
- Cryer, T., and Jordan, H. G.** Machine Construction and Mechanical Drawing. 13th edn. Cr. 4to. oblong. Pp. 137. 1920. Heywood. 5s.
- Dales, J. H.** A Manual of Mechanical Drawing. Cr. 8vo. Pp. 194. 1914. Cambridge University Press. 3s. 6d.
- A Course in Machine Drawing and Sketching. Demy 8vo. Pp. 192. 1919. Chambers. 3s. 6d.
- Dunkley, W. G.** •The Design of Machine Elements. 2 vols. Cr. 8vo. 1917. Vol. 1. Forces and Stresses; Shafts and Bearings; Couplings; Springs. Pp. 210. Vol. 2. Screws and Bolts; Clutches; Belts and Pulleys; Gearing. Pp. 220. Scott, Greenwood. 5s. each.
- Ellis, G.** Modern Technical Drawing. Demy 8vo. Pp. 200. 1913. Batsford. 7s. 6d.
- Handy, C. E.** Preliminary Machine Drawing Course. Oblong Demy 8vo. Pp. 42. 1920. Longmans. 2s.
- Hasluck, P. N.** (edited by). Practical Draughtsmen's Work. Cr. 8vo. Pp. 168. 1918. Cassell. 3s.
- Holt-Butterfill, H.** First Principles of Mechanical and Engineering Drawing. Demy 8vo. 1900. Chapman & Hall. 8s. 6d.
- Innes, C. H.** Problems in Machine Design. 2nd edn. Cr. 8vo. Pp. 258. 1908. Technical Pub. Co. 6s.
- Jagger, J. E.** An Elementary Text-book on Mechanical Drawing. 3rd edn. Cr. 4to. Pp. 261. 1921. Griffin. 15s.
- Jones, B. E.** (edited by). Mechanical Drawing. Demy 8vo. Pp. 270. 1920. Cassell. 6s.
- Jones, T. and T. G.** Machine Drawing. 4 Books. Med. 4to. 1920. Book 1. 69 Plates. 6s. Book 2. Machine Tools. 3rd edn. 48 Plates. 4s. Book 3. Engine and Pump Details. 44 Plates. 5s. Book 4. Machine Drawing for Electrical Engineering Students. 16 Plates. 1s. 4d. Heywood.
- Low, D. A.** An Introduction to Machine Drawing and Design. Cr. 8vo. Pp. 256. 1919. Longmans. 4s.
- and **Bevis, A. W.** A Manual of Machine Drawing and Design. 15th imp. Demy 8vo. Pp. 414. 1919. Longmans. 10s. 6d.
- Minchin, G. M., and Dale, J. B.** Mathematical Drawing. Including the Graphic Solution of Equations. 4th edn. Demy 8vo. Pp. 151. 1920. Arnold. 8s. 6d.
- Robson, J. H.** Machine Drawing and Sketching for Beginners. 3rd edn. 8vo. Pp. 202. 1918. Technical Pub. Co. 5s.
- Rowarth, E.** The Engineering Draughtsman. Demy 8vo. Pp. 270. 1919. Methuen. 10s. 6d.
- The Elements of Engineering Drawing. 3rd edn. Cr. 8vo. Pp. 146. 1919. Methuen. 4s. 6d.

Machine Drawing, Design, Draughtsmanship.

- Smith, W. H.** Guide to Draughtsmanship for Architects, Civil and Mechanical Engineers and Surveyors. Cr. 8vo. Pp. 106. 1917. Spon. 4s. 6d.
- Spooner, H. J.** Engineering Workshop Drawing. Oblong 4to. Pp. 136. 1919. Longmans. 5s.
- Industrial Drawing and Geometry: an Introduction to Technical Drawing. Oblong 4to. Pp. 184. 1918. Longmans. 7s. 6d.
- Machine Drawing and Design for Beginners. Cr. 4to. Pp. 282. 1919. Longmans. 6s.
- Machine Design, Construction, and Drawing. 5th imp. 8vo. Pp. 770. 1919. Longmans. 21s.
- Unwin, W. C., and Mellanby, A. L.** The Elements of Machine Design. 2 vols. 8vo. Vol. 1. General Principles, etc., Pp. 546. 1919. Vol. 2. Chiefly Engine Details. Pp. 450. 1918. Longmans. 15s. each vol.
- Wells, S. H.** A Text-Book of Engineering Drawing and Design. 2 vols. Cr. 8vo. Vol. 1. Practical Geometry, Plain and Solid. 8th edn. Pp. 203. 1920. 4s. 6d. Vol. 2. Machine and Engine Drawing and Design. 6th edn. Pp. 182. 1916. 4s. 6d. Griffin.
- II. GEOMETRICAL DRAWING AND DESIGNING.**
- HAND-LETTERING.**
- Adams, H.** Theory and Practice of Designing. Demy. 8vo. Pp. 257. 1911. Constable. 7s. 6d.
- Dennis, H. J.** Advanced Perspective, Third Grade. Angular and Oblique Perspective, Shadows and Reflections. 7th edn. Part 1. Angular and Oblique Perspective, with 31 Plates. 7s. 6d. Part 2. Shadows and Reflections, with 39 Plates. 7s. 6d. or in one volume 15s. Baillière.
- Hallett, G. W. T.** Hints on Architectural Draughtsmanship. 5th edn. Fcap. 8vo. Pp. 86. 1917. Spon. 2s. 6d.
- Harper, C. G.** A Practical Handbook of Drawing, for Modern Methods of Reproduction. 3rd edn. Demy 8vo. 1916. Chapman & Hall. 8s. 6d.
- Jackson, F. G.** Decorative Design. An Elementary Text-book of Principles and Practice. 3rd edn. Large Cr. 8vo. 1902. Chapman & Hall. 9s. 6d.
- The Theory and Practice of Design. An Advanced Text-book on Decorative Art. Large Cr. 8vo. 1903. Chapman & Hall. 11s.
- Lindsay, C. T.** Geometrical Drawing. Demy 8vo. Pp. 122. 1903. Chapman & Hall. 7s.
- Lineham, W. J.** A Treatise on Hand-Lettering for Engineers, Architects, Surveyors, and Students of Mechanical Drawing. Oblong 4to. Pp. 282 and 119 Plates. 1915. Chapman & Hall. 9s. 6d.
- Morris, I. H.** Geometrical Drawing for Art Students. Cr. 8vo. Pp. 236. 1919. Longmans. 3s.
- Spanton, J. H.** Geometrical Drawing and Design. Gl. 8vo. Pp. 272. 1919. Macmillan. 3s.
- Science and Art Drawing. 8vo. Part 1. Geometrical. Pp. 596. 1895. 12s. 6d. Part 2. Perspective. Pp. 300. 1900. 6s. Macmillan.
- Spooner, H. J.** The Elements of Geometrical Drawing. 2nd edn. Cr. 8vo. Pp. 340. 1914. Longmans. 4s. 6d.
- Watson, J.** Oblique and Isometric Projection. Fcap. 4to. Pp. 50. 1905. Arnold. 3s. 6d.
- Wright, C. O., and Rudd, W. A.** Model Drawing, Geometrical and Perspective, with Architectural Examples. Roy. 8vo. Pp. 263. 1916. Cambridge University Press. 6s.

CIVIL ENGINEERING.

i. GENERAL.

- Adams, H.** Strains in Ironwork. 4th edn. Cr. 8vo. Pp. 65. 1904. Spon. 6s.
- Alexander, W.** Columns and Struts. Theory and Design, with Practical Examples Worked Out. 8vo. Pp. 277. 1912. Spon. 12s. 6d.
- Anglin, S.** The Design of Structures. A Practical Treatise on the Building of Bridges, Roofs, etc. 6th edn. Large 8vo. Pp. 535. 1919. Griffin. 16s.
- Atcherley, L. W., and Pearson, K.** On the Graphics of Metal Arches with special reference to the Relative Strength of Two-pivoted, Three-pivoted and Built-in-Metal Arches. Pp. 64. 1905. Cambridge University Press. 5s.
- Barber, T. W.** Civil Engineering Types and Devices. Demy 8vo. Pp. 250. 1915. Crosby Lockwood. 9s.
- Bird, H.** The Practical Design of Plate Girder Bridges. Demy 8vo. Pp. 188. 1920. Griffin. 15s.
- Bligh, W. G.** Notes on Instruments best suited for Engineering Field Work in India and the Colonies. 8vo. Pp. 218. 1914. Spon. 5s. 6d.
- Brightmore, A. W.** Structural Engineering. New edn. with additional matter relating to Concrete. Demy 8vo. Pp. 310. 1913. Cassell. 10s. 6d.
- Burnside, W.** Bridge Foundations. Cr. 8vo. Pp. 148. 1916. Scott, Greenwood. 5s.
- Chatley, H.** Stresses in Masonry. Cr. 8vo. Pp. 154. 1909. Griffin. 4s.
- Corbin, T. W.** Engineering of Today. Cr. 8vo. Pp. 367. 1919. Seeley. 7s. 6d.
- Fidler, T. C.** Civil Engineering. Cr. 8vo. Pp. 195. 1905. Methuen. 5s.
- A Practical Treatise on Bridge Construction: A Text Book on the Construction of Bridges in Iron and Steel; for the use of Students, Draughtsmen, and Engineers. 4th edn. Roy. 8vo. Pp. 486. 1909. Griffin. 30s.
- Gibson, A. H., and Ritchie, E. G.** A Study of the Circular-Arc Bow-Girder. Imp. 8vo. Pp. 88. 1914. Constable. 10s. 6d.
- Hunter, A.** Bridge and Structural Engineers' Handbook of General Specifications, Formulæ, and Data for the Design of Cranes, Bridges, Foundations, and Workshop Buildings, embodying the practice of Sir William Arrol and Company, Ltd. Large Cr. 8vo. Pp. 316. 1920. Spon. 21s.
- Husband, J., and Harby, W.** Structural Engineering. 8vo. Pp. 408. 1919. Longmans. 12s. 6d.
- Lilly, W. E.** The Design of Plate Girders. Demy 8vo. Pp. 132. 1904. Chapman & Hall. 8s. 6d.
- Middleton, G. A. T.** Stresses and Thrusts. A Text-book on their Determination in Constructional Work, with Examples of the Design of Girders and Roofs. 4th edn. Cr. 8vo. Pp. 217. 1911. Batsford. 5s. 6d.
- Nielsen, T.** Calculation of Columns. A Practical Application of the Theory. 8vo. Pp. 36. 1911. Spon. 6s.
- Rankine, W. J. M.** A Manual of Civil Engineering. 24th edn. Revised by W. J. Millar. Large Cr. 8vo. Pp. 838. 1920. Griffin. 21s.
- Sprague, E. H.** The Stability of Arches. Cr. 8vo. Pp. 150. 1916. Scott, Greenwood. 5s.

Civil Engineering.

- Sprague, E. H.** *Stability of Masonry.* Cr. 8vo. Pp. 180. 1915. Scott, Greenwood. 5s.
- Taylor, F. N.** *A Manual of Civil Engineering Practice, Specially arranged for the use of Municipal and County Engineers.* 2nd edn. 8vo. Pp. 821. 1920. Griffin. 34s.
- *Masonry Applied to Civil Engineering. A Practical Treatise on the Design and Construction of Engineering Works in Stone and Heavy Concrete.* Demy 8vo. Pp. 241. 1915. Constable. 7s. 6d.
- Thorpe, W. H.** *The Anatomy of Bridge-work.* Cr. 8vo. Pp. 190. 1914. Spon. 7s. 6d.
- Usborne, P. O. G.** *The Design of Simple Steel Bridges.* Demy 8vo. Pp. 414. 1912. Constable. 12s. 6d.
- Vernon-Harcourt, L. F.** *Civil Engineering as Applied to Construction.* Revised by H. Fidler. 2nd edn. Med. 8vo. Pp. 612. 1919. Longmans. 25s.
- Warren, W. H.** *Engineering Construction.* 3rd edn. Roy. 8vo. 1921. Part 1. In Steel and Timber. Pp. 502. 30s. Part 2. Masonry and Concrete. Pp. 510. 36s. Longmans.
- Young, E. W.** *Simple Practical Methods of Calculating Strains on Girders, Arches, and Trusses.* 8vo. Pp. 140. 1873. Macmillan. 7s. 6d.
- ii. ESTIMATES, FORMULÆ,
etc.
- Ball, W. V.** *The Law Affecting Engineers, with an Outline of the Law relating to Engineering Contracts, and an Appendix of Forms of Contract.* Demy 8vo. Pp. 332. 1909. Constable. 10s. 6d.
- Coleman, T. E.** *The Civil Engineers' Cost Book, compiled for the use of Civil and Municipal Engineers, Public Works Contractors, etc.* 3rd edn. 16mo. Pp. 441. 1920. Spon. 10s. 6d.
- Hoskold, H. D.** *Engineers' Valuing Assistant: being a Practical Treatise on the Valuation of Collieries and Other Mines, etc.* 2nd edn. 8vo. Pp. 214. 1905. Longmans. 9s.
- Hurst, J. T.** *Spon's Engineers' Tables for Civil and Mechanical Engineers, Builders, Contractors, Plumbers, etc.* 12th edn. 64mo. Pp. 278. 1920. Spon. 2s.
- Hutton, W. S.** *The Works Managers' Handbook of Modern Rules, Tables and Data.* 8th edn. Med. 8vo. Pp. 444. 1917. Crosby Lockwood. 18s.
- Molesworth, G. L.** *Pocket Book of Useful Formulae and Memoranda for Civil, Mechanical and Electrical Engineers.* 28th edn. Oblong 32mo. Pp. 760. 1919. Spon. 10s.
- Suggate, A.** *Elements of Engineering Estimating.* Cr. 8vo. Pp. 135. 1912. Technical Pub. Co. 4s. 9d.
- iii. SURVEYING: LAND AND
MINE.
- Adams, H.** *Practical Surveying and Elementary Geodesy.* Cr. 8vo. Pp. 288. 1913. Macmillan. 5s.
- Andrews, E. S.** *Alignment Charts: Their Principle and Application to Engineering Formulae.* Pp. 32. Chapman & Hall. 1s. 6d.
- Baker, T., and Dixon, F. E.** *Rudimentary Treatise on Land and Engineering Surveying.* 23rd edn. Cr. 8vo. Pp. 250. 1919. Crosby Lockwood. 2s. 6d.
- Briggs, H.** *The Effects of Errors in Surveying.* Cr. 8vo. Pp. 190. 1912. Griffin. 6s.
- Brough, B. H.** *A Treatise on Mine Surveying. For the use of Managers of Mines and Collieries. Students, etc.* 15th edn. revised by H. Dean. Cr. 8vo. 1920. Griffin. 9s.
- Bryson, T., and Chambers, G. M.** *An Introduction to Mine Surveying.* 2nd imp. Pp. 296. 1919. E. Arnold. 6s.

- Davies, D.** Problems in Land and Mine Surveying. 2nd edn. Cr. 8vo. Pp. 367. 1921. Griffin. 12s. 6d.
- Elliott, M. E. Y.** Tacheometer Surveying, with Special Notes on Plotting, Care and Adjustment of Instruments, Field Work, and Calculations. Cr. 8vo. Pp. 158. 1916. Spon. 6s.
- Ferguson, T.** Automatic Surveying Instruments, and their Practical Uses on Land and Water. Cr. 8vo. Pp. 86. 1904. Bale & Danielsson. 4s.
- Gribble, T. G.** Preliminary Survey and Estimates, including Elementary Astronomy, Route Surveying, Tacheometry, Curve Ranging, Graphic Mensuration, Estimates, Hydrography, and Instruments. Cr. 8vo. Pp. 494. 1913. Longmans. 8s. 6d.
- Hearn, G. R.** Railway Engineers' Field Book. 12mo. Pp. 230. 1914. Spon. 21s.
- Higgins, A. L.** The Field Manual. A Practical Treatise of Surveying Methods and Operations. Cr. 8vo. Pp. 948. 1920. Pitman. 21s.
- Kennedy, N.** A Practical Manual of Surveying with the Tacheometer. 3rd edn. Demy 8vo. Pp. 112. 1912. Crosby Lockwood. 12s. 6d.
- Leston, G. L.** Surveying: Land and Mining. 4th edn. Large Cr. 8vo. Pp. 386. 1921. Crosby Lockwood. 9s.
- Middleton, G. A. T.** Surveying and Surveying Instruments. 3rd edn. Cr. 8vo. Pp. 174. 1912. Pitman. 6s.
- Middleton, R. E., and Chadwick, O.** A Treatise on Surveying. 4th edn. Revised by M. T. M. Ormsby. 2 vols. Cr. 8vo. Pp. 406., 365. 1920. Spon. 15s. each vol.
- O'Donahue, T. A.** Field and Colliery Surveying. A Primer designed for the use of Students of Surveying and Colliery Manager Aspirants. Gl. 8vo. Pp. 316. 1918. Macmillan. 5s.
- Ormsby, M. T. M.** Elementary Principles of Surveying. Cr. 8vo. Pp. 244. 1914. Scott, Greenwood. 5s.
- Park, J.** A Text-book of Theodolite Surveying and Levelling: for the Use of Students in Land and Mine Surveying. 5th edn. in Preparation. Griffin.
- Pilkington, W.** Co-ordinate Geometry applied to Land Surveying. 12mo. Pp. 44. 1909. Spon. 2s.
- Popplewell, W. C.** The Elements of Surveying and Geodesy. 8vo. Pp. 256. 1915. Longmans. 9s.
- Salmon, V. G.** Practical Surveying and Field Work. Cr. 8vo. Pp. 212. 1918. Griffin. 7s. 6d.
- Simms, F. W.** Treatise on the Principles and Practice of Levelling. Its application to purposes of Railway Engineering and the Construction of Roads. 9th edn. 8vo. Pp. 223. 1907. Crosby Lockwood. 9s.
- Stewart, B.** Handbook on Railway Surveying for Students and Junior Engineers. Cr. 8vo. Pp. 98. 1914. Spon. 3s. 6d.
- Thomas, W. N.** Surveying. Med. 8vo. Pp. 540. 1920. E. Arnold. 31s. 6d.
- Threlfall, H.** A Text Book on Surveying and Levelling. Large Cr. 8vo. Pp. 680. 1920. Griffin. 21s.
- Usill, G. W.** Practical Surveying. 12th edn. Revised by G. L. Leston. Large Cr. 8vo. Pp. 358. 1916. Crosby Lockwood. 8s. 6d.
- Wells, G. C., and Clay, A. S.** The Field Engineer's Handbook. 2nd edn. 18mo. Pp. 230. 1920. Arnold. 8s. 6d.
- Whitelaw, J.** A Text-Book of Surveying as Practised by Civil Engineers and Surveyors. 6th edn. Demy 8vo. Pp. 516. 1920. Crosby Lockwood. 12s. 6d.
- Williamson, J.** Surveying and Field Work. Demy 8vo. Pp. 385. 1915. Constable. 9s.
- Xydis, C.** Handbook on Tacheometrical Surveying. 8vo. Pp. 63. 1909. Spon. 7s. 6d.

iii. SURVEYING: LAND AND MINE.

Tables and Calculations.

- Beazeley, A.** Curves, Tables of Tangential Angles and Multiples. For Setting-out Curves from 5 to 200 Radius. 7th. edn. Pocket size. 50 cards. 1905. Crosby Lockwood. 5s.
- Cutler, H. A., and Edge, F. J.** Tables for Setting Out Curves from 101 feet to 5,000 feet radius. 32mo. Pp. 47. Spon. 2s. 6d.
- Gurden, R. L.** Traverse Tables: computed to Four Places of Decimals for every Minute of Angle up to 100 of Distance. For the use of Surveyors and Engineers. 11th edn. Folio. 1920. Griffin. 15s.
- Kennedy, A., and Hackwood, R. W.** Tables for Setting Out Curves for Railways, Canals, Roads, etc. 32mo. Spon. 2s. 6d.
- Lintern, W.** Traverse Tables for Use in Mine Surveying. Fcap. 8vo. Pp. 107. 1900. Crosby Lockwood. 3s. 6d.
- Louis, H., and Caunt, G. W.** Tachometer Tables. 8vo. Pp. 102. 1919. Arnold. 10s. 6d.
- Traverse Tables, with an Introductory Chapter on Co-ordinate Surveying. Demy 8vo. Pp. 122. 1919. Arnold. 5s. 6d.
- Wallace, J.** Logarithmic Land Measurement. A set of Tables for the use of those engaged in Measuring Land. 8vo. Pp. 32. 1910. Spon. 5s.
- Williamson, H.** Tables for Setting out Curves from 200 metres to 4000 metres radius by Tangential Angles or offsets from Tangents. 16mo. Pp. 60. Spon. 2s. 6d.
- iv. ROAD MAKING.**
- Aitken, T.** Road Making and Maintenance: A Practical Treatise for Engineers, Surveyors, and Others. 3rd edn. in preparation. Griffin.
- Anon.** Concrete Roads and their Construction: being a description of the Concrete Roads in the United Kingdom, together with a summary of the experience in the form of construction gained in Australia, Canada, New Zealand and the United States of America. Demy 8vo. Pp. 212. 1921. Concrete Publications, Ltd. 8s.
- Boulnois, H. P.** Modern Roads. Demy 8vo. Pp. 302. 1919. Arnold. 16s.
- Carey, A. E.** The Making of High-roads. Cr. 8vo. Pp. 95. 1914. Crosby Lockwood. 3s. 6d.
- Law, H., Clark, D. K., and Wallis-Taylor, A. J.** Construction of Roads and Streets. 8th edn. Cr. 8vo. Pp. 520. 1914. Crosby Lockwood. 6s. 6d.
- Wood, F.** Modern Road Construction. A Practical Treatise for the Use of Engineers, Students, &c. 2nd edn. Med. 8vo. Pp. 296. 1920. Griffin. 21s.
- v. RAILWAYS AND TRAMWAYS PERMANENT WAY AND WORKING.**
- A. R. B. (edited by).** Railway Carriage and Wagon Builders' Pocket Book. Pocket size. Pp. 230. 1920. Locomotive Pub. Co. 3s. 6d.
- Addis, A. W. C.** Practical Hints to Young Engineers Employed on Indian Railways. 12mo. Pp. 154. 1910. Spon. 4s.
- Allen, C. J.** Modern British Permanent way. Cr. 8vo. Pp. 147. 1915. Transport, Ltd. 6s.
- Allen, G. T.** Tables of Parabolic Curves for the use of Railway Engineers. In French and English. 16mo. Spon. 4s.
- Arnall.** Permanent Way for Tramways and Steel Railways. Pp. 248. 1905. Transport, Ltd. 12s. 6d.
- Byles, C. B.** First Principles of Railway Signalling. Pp. 146. Transport, Ltd. 4s.

Civil Engineering.

- Chatley, H.** *Pioneer Railway Engineering.* Cr. 8vo. Pp. 144. 1916. Technical Pub. Co. 5s. 6d.
- Clayton, S. C.** *The Permanent Way Handbook.* Fcap. 8vo. Pp. 132. 1919. Spon. 6s.
- Cole, W. H.** *Permanent Way Material, Platelaying and Points and Crossways, with a few Remarks on Signalling and Interlocking.* 8th edn. Revised by G. R. Hearn. Cr. 8vo. Pp. 284. 1920. Spon. 12s. 6d.
- Glover, J.** *Formulae for Railway Crossings and Switches.* Oblong 32mo. Spon. 2s. 6d.
- Grace's Tables for Curves, with Hints for Young Engineers. Oblong 8vo. Pp. 43. Spon. 6s.**
- Halden, G. M.** *Setting Out of Tube Railways.* 4to. Pp. 68. 1914. Spon. 10s. 6d.
- Holt, R. B.** *Tramway Track Construction and Maintenance.* Demy 8vo. Pp. 250. 1915. *Tramway and Railway World.* 12s. 6d.
- Jarvis, W. H.** *Railway Stores Methods and Problems.* Pp. 116. Transport, Ltd. 4s.
- Jones, T. W.** *Permanent Way Pocket Book and the Railwayman's Companion.* 12mo. Pp. 191. 1918. Thacker. 6s.
- L. H.** *Railway Signal and Permanent Way Engineers' Pocket Book.* Pocket size. Pp. 260. 1920. Locomotive Pub. Co. 3s. 6d.
- Lewis, L. P.** *Railway Signal Engineering (Mechanical).* 2nd edn. Demy 8vo. Pp. 376. 1920. Constable. 14s.
- Parson, J., and Cooke, B. W.** *Notes on Railway Signalling.* Cr. 8vo. Pp. 74. 1914. Locomotive Pub. Co. 2s. 6d.
- Perrott, S. W., and Badger, F. E. G.** *The Practice of Railway Surveying and Permanent Way Work.* 8vo. Pp. 311. 1920. Arnold. 30s.
- Travis, Lamb and Jenkinson.** *Elements of Railway Operating Economics.* Pp. 228. Transport, Ltd. 2s. 6d.
- and Lamb.** *Practical Railway Working.* 1st p. 326. Transport, Ltd. 3s. 6d.
- West, F. W.** *The Railway Goods Station. A Guide to its Control and Operation.* Cr. 8vo. Pp. 207. 1912. Spon. 2s. 6d.
- Wilson, H. R.** *Power Railway Signalling.* Pp. 342. Transport, Ltd. 18s.
- vi. HYDRAULICS, HYDRAULIC ENGINEERING, HARBOURS, RIVER AND CANAL ENGINEERING.**
- Barnes, A. A.** *Hydraulic Flow Reviewed. A Book of Reference of Standard Experiment on Pipe, Channels, Notches, Weirs, and Circular Orifices, together with new formulæ.* Roy. 8vo. Pp. 169. 1916. Spon. 15s.
- Beardmore, N.** *Manual of Hydrology. Containing Hydraulic and Other Tables; Rivers, Flow of Water, Springs, Wells, and Percolation; Tides, Estuaries, and Tidal Rivers; Rainfall and Evaporation.* 8vo. Pp. 384. 1914. Spon. 10s. 6d.
- Bellasis, E. S.** *Hydraulics, with Working Tables.* 3rd edn. Demy 8vo. Pp. 356. 1920. Chapman and Hall. 18s.
- *River and Canal Engineering. The Characteristics of Open Flowing Streams, and the principles and methods to be followed in dealing with them.* 8vo. Pp. 220. 1913. Spon. 10s. 6d.
- Box, T.** *Practical Hydraulics: a Series of Rules and Tables for the use of Engineers, etc.* 7th edn. Cr. 8vo. Pp. 100. 1920. Spon. 7s. 6d.
- Busquet, R.** *Hydraulics. Translated by A. H. Peake.* Cr. 8vo. Pp. 320. 1906. Arnold. 7s. 6d.

Civil Engineering.

- Butler, E.** Modern Pumping and Hydraulic Machinery. 2nd edn. in preparation. Griffin.
- Coleman, T. E.** Retaining Walls in Theory and Practice. A Text-book for Students. Cr. 8vo. Pp. 160. 1914. Spon. 4s.
- Cunningham, B.** The Principles and Practice of Dock Engineering. 2nd edn. Large 8vo. Pp. 616. 1910. Griffin. 36s.
- The Dock and Harbour Engineer's Reference Book: a compilation of Notes connected with Maritime Engineering and Ports and Harbours. Pocket size. Pp. 326. 1914. Griffin. 10s. 6d.
- The Principles and Practice of Harbour Engineering. 2nd edn. Large 8vo. Pp. 393. 1918. Griffin. 25s.
- Dunkerley, S. H.** Hydraulics. 2 Vols. 8vo. Vol. I., Hydraulic Machinery, (out of print). Vol. II., The Resistance and Propulsion of Ships. Pp. 260. 1908. Longmans. 12s.
- Ekin, T. C.** Water Pipe and Sewage Discharge Diagrams. Folio. Pp. 21. 1908. Constable. 6s.
- Fergusson, F. F.** The Fundamental Principles of Water Power Engineering. Pott 8vo. Pp. 126. 1921. Pitman. 2s. 6d.
- Fidler, T. C.** Calculations in Hydraulic Engineering. 2 Parts. 8vo. Part 1. Fluid Pressure and the Calculation of its Effects in Engineering Structures. 2nd imp. Pp. 168. 1907. 8s. Part 2. Calculations in Hydro-Kinetics. New edn. Pp. 218. 1914. 9s. Longmans.
- Garrett, A. ff.** Hydraulic Tables and Diagrams for Practical Engineers. Oblong 4to. Pp. 56. 1909. Longmans. 16s. 6d.
- Gibson, A. H.** Hydraulics and its Applications. A Text-book for Engineers and Students. 2nd edn. Demy 8vo. Pp. 828. (1912) 1920. Constable. 24s.
- Water Hammer in Hydraulic Pipe Lines. 2nd edn. Feap. 8vo. 1920. Constable. 8s.
- Hennell, T.** Hydraulic and other Tables for purposes of Sewerage and Water Supply. 3rd edn. Cr. 8vo. Pp. 70. 1920. Spon. 3s.
- Lea, F. C.** Hydraulics. For Engineers and Engineering Students. 3rd edn. Demy 8vo. Pp. 580. 1919. Arnold. 18s.
- Matthews, E. R.** Studies in the Construction of Dams: Earthen and Masonry. Large 8vo. 1919. Griffin. 4s. 6d.
- Meares, J. W.** Hydro-Electric Development. The Determination of Water-Power Possibilities, Methods of Utilization, Design and Construction of Works. 18mo. Pp. 400. 1920. Pitman. 2s. 6d.
- Minikin, R. C. R.** Practical River and Canal Engineering. Demy 8vo. Pp. 130. 1920. Griffin. 12s. 6d.
- Moore, E. C. S.** New Hydraulic Tables for the Complete Solution of Ganguillet and Kutter's Formula for the Flow of Liquid in Open Channels, Pipes, Sewers, and Conduits. Specially compiled Tables. Med. 8vo. Pp. 230. 1901. Batsford. 18s.
- Park, J.** A Text-Book of Practical Hydraulics for the use of Mining Schools, Technical Colleges, Engineers, etc. 2nd edn. Large Cr. 8vo. Pp. 320. 1921. Griffin. 21s.
- Parker, P. A. M.** The Control of Water as applied to Irrigation, Power and Town Water Supply Purposes. Large 8vo. Pp. 1,061. 1913. Routledge. 25s.
- Pearson, K., Pollard, A. F. C., Wheen, C. W., and Richardson, L. F.** An Experimental Study of the Stresses in Masonry Dams. Pp. 44. 1907. Cambridge University Press. 7s.
- Shield, W.** Principles and Practice of Harbour Construction. Med. 8vo. Pp. 314. 1910. Longmans. 17s. 6d.
- Silk, A. E.** Tables for Calculating the Discharge of Water in Pipes for Water and Power Supplies. Cr. 8vo. Pp. 63. 1914. Spon. 4s. 6d.

Civil Engineering.

Sprague, E. H. *Hydraulics.* Cr. 8vo. Pp. 190. 1914. Scott, Greenwood. 4s. 6d.

Unwin, W. C. *A Treatise on Hydraulics.* 2nd edn. Demy 8vo. Pp. 339. 1912. Black. 12s. 6d.

Vernon-Harcourt, L. F. *Rivers and Canals.* 2 Vols. 8vo. 1896. Vol. 1. *Rivers: their Flow, Control, and Improvement.* Pp. 362. Vol. 2. *Canals: their Design, Construction, and Development.* Pp. 716. Oxford: Clarendon Press. 31s. 6d.

Wallace, W. M. *Hydraulics in Theory and Practice.* Cr. 8vo. Pp. 280. 1914. Technical Pub. Co. 5s. 6d.

vii. IRRIGATION.

Bellasis, E. S. *Irrigation Works.* The Principles on which their Design and Working should be based, with special Details relating to Indian Canals, and some proposed improvements. 8vo. Pp. 204. 1913. Spon. 10s. 6d.

— *Punjab Rivers and Works.* A description of the Shifting Rivers of the Punjab Plains and of Works on them—Inundation Canals, Flood Embankments, and River Training Works, etc. 2nd edn. Folio. Pp. 64 and 47 Plates. 1912. Spon. 10s. 6d.

Brown, Sir H. *Irrigation: Its Principles and Practice as a Branch of Engineering.* 2nd edn. Demy 8vo. Pp. 316. 1912. Constable. 16s.

Brownlie, T. A. *Further Notes on Tube Wells: Boring, Sinking and Working for Irrigation Purposes in India.* 2nd edn. Demy 8vo. 1914. Thacker. 7s. 6d.

Buckley, R. B. *Irrigation Pocket Book.* Facts, Figures, and Formulae for Irrigation Engineers, being a Series of Notes on Miscellaneous subjects connected with Irrigation. 3rd edn. Cr. 8vo. Pp. 630. 1920. Spon. 30s.

— *The Irrigation Works of India.* 2nd edn. 4to. Pp. 336. 1905. Spon. 50s.

Buckley, R. B. (compiled by). *The Design of Channels for Irrigation for Drainage; being a Statement of the various Formulae in use and a Guide to the Practical Application of them.* Cr. 8vo. Pp. 55. 1911. Spon. 2s.

Doyle, K. D. *Agriculture and Irrigation in Continental and Tropical Climates.* Demy 8vo. Pp. 284. 1921. Constable. 19s.

Mackenzie, N. T. *Notes on Irrigation Works.* Demy 8vo. Pp. 119. 1910. Constable. 7s. 6d.

Mawson, E. O. *Pioneer Irrigation. A Manual of information for Farmers in the Colonies: with Chapters on Light Railways by E. R. Calthrop.* Demy 8vo. Pp. 276. 1904. Crosby Lockwood. 12s. 6d.

Strange, W. L. *Notes on Irrigation, Roads, and Buildings, and on the Water Supply of Towns.* Demy 8vo. Pp. 872. 1920. Routledge. 45s.

— *Indian Storage Reservoirs with Earthen Dams. A Practical Treatise on their Design and Location.* 2nd edn. 8vo. Pp. 466. 1913. Spon. 25s.

Willcocks, Sir W. *Egyptian Irrigation.* 2 Vols. 3rd edn. Super. Roy. 8vo. Pp. 924. 1913. Spon. 63s.

— *The Irrigation of Mesopotamia.* 2 Vols. 2nd edn. Text, super Roy. 8vo., plates, folio. Pp. 136. 46 Plates. 1917. Spon. 30s.

viii. SHORE PROTECTION. LAND RECLAMATION.

Beazeley, A. *Reclamation of Land from Tidal Waters.* 8vo. Pp. 326. 1900. Crosby Lockwood. 12s. 6d.

Carey, A. E., and Oliver, F. W. *Tidal Lands. A Study of Shore Problems.* Demy 8vo. Pp. 284. 1918. Blackie. 15s.

Latham, E. *The Maintenance of Foreshores.* Cr. 8vo. Pp. 90. 1914. Crosby Lockwood. 2s. 6d.

Matthews, E. R. *Coast Erosion and Protection.* 2nd edn. Med. 8vo. Pp. 211. 1918. Griffin. 12s. 6d.

Civil Engineering.

ix. HYDRAULIC MOTORS.

Ball, Sir R. S. *Natural Sources of Power.* Ex. Cr. 8vo. Pp. 364. 1908. Constable. 7s. 6d.

Björling, P. R. *Water or Hydraulic Motors.* Cr. 8vo. Pp. 287. 1903. Spon. 9s.

Blaine, R. G. *Hydraulic Machinery, with an Introduction to Hydraulics.* 3rd edn. 8vo. Pp. 470. 1913. Spon. 15s.

Bodmer, G. R. *Hydraulic Motors and Turbines. A Handbook for Engineers, Manufacturers and Students.* 3rd edn. Pp. 564. 1902. Pitman. 15s.

Chatley, H. *How to Use Water Power.* Cr. 8vo. Pp. 92. 1907. Technical Pub. Co. 3s. 6d.

Clarke, J. W. *Hydraulic Rams. Their Principles and Construction; with Results of Experiments.* 2nd edn. Cr. 8vo. Pp. 132. 1907. Batsford. 3s. 6d.

Gibson, A. H. *Natural Sources of Energy.* Roy. 16mo. Pp. 140. 1913. Cambridge University Press. 2s. 6d.

Marks, Sir G. C. *Hydraulic Power Engineering. A Practical Manual on the Concentration and Transmission of Power by Hydraulic Machinery.* 2nd edn. Demy 8vo. Pp. 404. 1905. Crosby Lockwood. 12s. 6d.

Robinson, H. *Hydraulic Power and Hydraulic Machinery.* 3rd edn. Demy 8vo. Pp. 243. 1920. Griffin. 30s.

x. PUMPS.

Bale, M. P. *Pumps and Pumping. A Handbook for Pump Users.* 6th edn. Cr. 8vo. Pp. 121. 1912. Crosby Lockwood. 4s.

Björling, P. R. *Practical Handbook on Pump Construction.* 2nd edn. Cr. 8vo. Pp. 94. 1912. Spon. 6s.

Bowden-Smith, E. C. *The Efficiency of Pumps and Ejectors.* Demy 8vo. Pp. 216. 1920. Constable. 14s. 6d.

Bradley, F. A. *Pumping and Water-Power. A Guide to the Hydraulic Laws and Conditions influencing Pumping Operations, etc.* 8vo. Pp. 125. 1912. Spon. 6s.

Clarke, J. W. *Pumps. Their Principles and Construction.* 2nd edn. Cr. 8vo. Pp. 174. 1919. Batsford. 4s. 6d.

Colyer, F. *Pumps and Pumping Machinery.* 2nd edn. 8vo. Part 1. Pp. 212. 1892. Part 2. Pp. 169. 1900. Spon. 12s. 6d. each.

Davey, H. *The Principles and Construction of Pumping Machinery; Steam and Water Pressure.* 2nd edn. Large 8vo. Pp. 350. 1905. Griffin. 25s.

Innes, C. H. *Centrifugal Pumps, Turbines and Water Motors.* 5th edn. Cr. 8vo. Pp. 312. 1909. Technical Pub. Co. 6s.

Michell, S. *Mine Drainage; A Treatise on Direct-Acting Underground Steam Pumping Machinery.* 2nd edn. Roy. 8vo. Pp. 396. 1899. Crosby Lockwood. 25s.

Sargeant, E. W. *Centrifugal Pumping Machinery and Suction Dredgers.* 2nd edn. 8vo. Pp. 188. 1918. Griffin. 15s.

Weisbach, J., and Herrmann, G. *The Mechanics of Pumping Machinery.* 8vo. Pp. 308. 1897. Macmillan. 12s. 6d.

xi. WATER SUPPLY.

Binnie, Sir A. R. *Rainfall, Reservoirs and Water Supply.* Demy 8vo. Pp. 168. 1913. Constable. 9s.

Burton, W. K., and Greenwell, A. *Water Supply of Towns and the Construction of Waterworks.* 3rd edn. Super Roy. 8vo. Pp. 334. 1907. Crosby Lockwood. 28s.

Greenwell, A., and Curry, W. T. *Rural Water Supply. A Practical Handbook on the supply of Water and Construction of Waterworks for Country Districts.* 3rd edn. Cr. 8vo. Pp. 220. 1913. Crosby Lockwood. 6s.

Harrison, A. B. *Practical Well Sinking.* Cr. 8vo. Pp. 66. 1913. Technical Pub. Co. 2s.

Hellins, H. H. *The Lay-Out of Small Water Mains.* Notes and Tables dealing with various Problems in Simple, Compound, Double and Ring Mains. 8vo. Pp. 45. 1921. Pitman. 7s. 6d.

Houston, Sir A. C. *Rural Water Supplies and Their Purification.* Demy 8vo. Pp. 152. 1918. Bale & Danielsson. 7s. 6d.

— *Rivers as Sources of Water Supply.* Cr. 4to. Pp. 102. 1917. Bale & Danielsson. 5s.

— *Studies in Water Supply.* 8vo. Pp. 216. 1913. Macmillan. 6s. 6d.

Isler, C. *Well Boring for Water, Brine, and Oil: A Manual of Current Practice.* 3rd edn. Demy 8vo. Pp. 268. 1920. Spon. 16s.

McPherson, J. A. *Waterworks Distribution. A Practical Guide to the Laying Out of Systems of Distributing Mains for the Supply of Water to Cities and Towns.* 2nd edn. 8vo. Pp. 175. 1907. Batsford. 7s. 6d.

Middleton, R. E. *Water Supply: A Practical Treatise on the Selection of Sources and the Distribution of Water.* 2nd edn. in preparation. Griffin.

Rideal, S., and E. K. *Water Supplies: Their Purification, Filtration, and Sterilisation.* Demy 8vo. Pp. 250. 1914. Crosby Lockwood. 8s. 6d.

Sharp, J. *Some Considerations Regarding Cast Iron and Steel Pipes.* Roy. 8vo. Pp. 150. 1914. Longmans. 8s. 6d.

Taylor, F. N. *Small Water Supplies. A Practical Treatise on the Methods of Collecting, Storing, and Conveying Water for Domestic use in Country Mansions, Estates, and Small Villages and Farms.* Cr. 8vo. Pp. 180. 1912. Batsford. 7s. 6d.

Tudsbury, J. H. T., and Brightmore, A. W. *The Principles of Waterworks Engineering.* 3rd edn. 8vo. Pp. 447. 1905. Spon. 24s.

xii. WATER PURIFICATION.

Booth, W. H. *Water Softening and Treatment: Condensing Plant, Feed Pumps and Heaters for Steam Users and Manufacturers.* 2nd edn. Demy 8vo. Pp. 324. 1920. Constable. 9s. 6d.

Collet, H. *Water Softening and Purification.* 2nd edn. Cr. 8vo. Pp. 170. 1908. Spon. 6s. 6d.

Don, J., and Chisholm, J. *Modern Methods of Water Purification.* 2nd edn. Demy 8vo. Pp. 416. 1913. Arnold. 16s.

xiii. MUNICIPAL ENGINEERING. SANITARY SCIENCE AND PLUMBING.

Adams, H. C. *The Sewerage of Sea Coast Towns.* Demy 8vo. Pp. 132. 1911. Crosby Lockwood. 6s.

Allan, F. J., and Farrar, R. A. *Aids to Sanitary Science.* 2nd edn. Fcap. 8vo. Pp. 282. 1903. Baillière. 4s. 6d.

Allsop, R. O. *Engineering Work in Public Buildings. Power, Lighting, Heating, Ventilation, Water Supply.* 4to. Pp. 168. 1912. Spon. 12s. 6d.

Barwise, S. *Purification of Sewage. The Scientific Principles of Sewage Purification and their Practical Application.* 2nd edn. Demy 8vo. Pp. 234. 1904. Crosby Lockwood. 12s. 6d.

Bennett, S. B. *A Manual of Technical Plumbing and Sanitary Science.* 3rd edn. Roy. 8vo. Pp. 300. 1919. Batsford. 6s.

Blake, E. H. *Drainage and Sanitation. A Practical Exposition of the Conditions vital to Healthy Buildings, their Surroundings and Construction, their Ventilation, Heating, Lighting, Water and Waste Services. For the use of Architects, Surveyors, Engineers, etc.* 2nd edn. Demy 8vo. Pp. 531. 1920. Batsford. 15s.

Civil Engineering.

- Boulnois, H. P.** Municipal Engineering: surveying the scope of Municipal Engineering and the Statutory position, the appointment, training and duties of a Municipal Engineer. Feap. 8vo. Pp. 110. 1921. Pitman. 2s. 6d.
- Clarke, J. W.** Modern Plumbing Practice. Vol. 1. Practical Lead Working and Plumbers' Materials, with Chapters on Siphons and their Action, etc. Edited by W. Scott. Large 8vo. Pp. 300. 1914. Batsford. 12s.
- Practical Science for Plumbers and Engineering Students—Treatment of Physics, Metals, Hydraulics, Heat, Temperature, etc. 8vo. Pp. 226. 1903. Batsford. 6s.
- Clemesha, W. W.** Sewage Disposal in the Tropics. Demy 8vo. Pp. 241. 1910. Thacker. 15s.
- Coleman, T. E.** Stable Sanitation and Construction. Cr. 8vo. Pp. 226. 1897. Spon. 3s. 6d.
- Crimp, W. S., and Bruges, C. E.** Sewers and Water Mains. Tables and Diagrams for use in Designing Sewers and Water Mains. Oblong 4to. Pp. 107. 1897. Batsford. 10s.
- Davies, P. J.** Standard Practical Plumbing, being a complete Encyclopædia for Practical Plumbers, Architects, Builders, Gas-Fitters, Hot-water Fitters, etc. 3 Vols. Vol. 1. 4th edn. Pp. 355. 1905. 7s. 6d. Vol. 2. 2nd edn. Pp. 805. 1905. 10s. 6d. Vol. 3. Pp. 204. 1905. 5s. Spon. The 3 Vols. 21s.
- Davis, G. B., and Dye, F.** A Complete and Practical Treatise on Plumbing and Sanitation. 4to. Pp. 818. 1899. Spon. 42s.
- Dunbar.** A Manual of The Principles of Sewage Treatment. English edition by H. T. Calvert. 2nd edn. in preparation. Griffin.
- Easdale, W. C.** Sewage Disposal Works, their Design and Construction. 8vo. Pp. 264. 1910. Spon. 10s. 6d.
- The Empire Municipal Directory of Local Authorities and Officials and Year Book of "Municipal Engineering and the Sanitary Record"** for 1920-21. 38th year of publication. 4to. Pp. 268 and Diary. 1921. Sanitary Publishing Co. 7s. 6d.
- Fletcher, Sir B. F., and H. P.** Architectural Hygiene: or Sanitary Science as Applied to Buildings. 4th edn. Cr. 8vo. Pp. 284. 1911. Pitman. 10s. 6d.
- Hart, J. W.** Sanitary Plumbing and Drainage. Demy 8vo. Pp. 250. 1904. Scott, Greenwood. 8s. 6d.
- External Plumbing Work. A Treatise on Lead Work for Roofs. 2nd edn. Demy 8vo. Pp. 272. 1902. Scott, Greenwood. 8s. 6d.
- Hints to Plumbers on Joint Wiping, Pipe Bending and Lead Burning. 3rd edn. Demy 8vo. Pp. 313. 1901. Scott, Greenwood. 8s. 6d.
- Hasluck, P. N.** (edited by). Practical Plumbers' Work. Cr. 8vo. Pp. 168. 1919. Cassell. 3s.
- Hellyer, S. S.** Plumbing. 7th edn. Small post 8vo. Pp. 294. 1905. Bell. 5s.
- Herring-Shaw, A.** Elementary Science Applied to Sanitation and Plumbers' Work. 2nd edn. Demy 8vo. Pp. 280. 1910. Gurney and Jackson. 6s.
- Domestic Sanitation and Plumbing. 2 Vols. Demy 8vo. Vol. 1. Materials; Soil, Waste and Vent Pipes; Sanitary Fittings; House Drainage; Cesspools; Disposal of House Sewage. Pp. 336. 1909. 6s. 6d. Vol. 2. Water Supply; Domestic Hot Water; Warming and Ventilation. Pp. 374. 1911. 7s. 6d. Gurney and Jackson.
- and Newsome, H. F. V.** Modern Sanitary Engineering and Plumbers' Work; Progressive Scale Drawings of Current Practice. 2 Vols. Large Feap. Folio. Vol. 1. Examples of the Jointing and Fixing of Pipes, etc. Pp. 40. 3s. Vol. 2. Examples of the Drainage of Buildings, etc. Pp. 48. 3s. 6d. Longmans.

- Kershaw, G. B.** Sewage Purification and Disposal. Demy 8vo. Pp. 350. 1915. Cambridge University Press. 14s.
- Modern Methods of Sewage Purification. A Guide for the Designing and Maintenance of Sewage Purification Works. Med. 8vo. Pp. 369. 1911. Griffin. 25s.
- Maguire, W. R.** Domestic Sanitary Drainage and Plumbing. 4th edn. 8vo. Pp. 506. 1903. Kegan Paul. 12s.
- Maxwell, W. H.** (edited by). The Encyclopedia of Municipal and Sanitary Engineering. 4to. Pp. 561. 1910. Constable. 42s.
- British Progress in Municipal Engineering. Super Roy. 8vo. Pp. 182. 1904. Constable. 6s.
- Middleton, G. A. T.** The Drainage of Town and Country Houses. A Practical Account of Modern Sanitary Arrangements and Fittings. 8vo. Pp. 176. 1908. Batsford. 5s. 6d.
- Raikes, H. P.** Sewage Disposal Works: Design, Construction, and Maintenance. A Practical Guide to Modern Methods of Sewage Purification. Demy 8vo. Pp. 429. 1913. Constable. 16s.
- Raynes, F. W.** Domestic Sanitary Engineering and Plumbing. Dealing with Domestic Water Supplies, Pump and Hydraulic Ram Work, Hydraulics, Sanitary Work, Heating by Low Pressure, Hot Water, and External Plumbing Work. 2nd edn. Demy 8vo. Pp. 488. 1920. Longmans. 21s.
- Reid, G.** Practical Sanitation: a Handbook for Sanitary Inspectors and others interested in Sanitation. 19th edn. Cr. 8vo. Pp. 379. 1919. Griffin. 7s. 6d.
- Shone, I.** Sewage Drainage Systems: The Shone System and the Gravitation Sewage-Drainage Systems of the Nineteenth Century, etc. 8vo. Pp. 460. 1914. Spon. 25s.
- Drainage and Drainage Ventilation Methods at the Houses of Parliament, etc. 8vo. Pp. 36 and 7 Plates. 1913. Spon. 6s.
- Taylor, F. N.** The Main Drainage of Towns. Med. 8vo. Pp. 324. 1912. Griffin. 15s.
- Thomson, G.** Modern Sanitary Engineering. Demy 8vo. Part 1. House Drainage. 2nd edn. Pp. 280. 1920. 16s. Part 2. Sewerage. Pp. 221. 1921. 18s. Constable.
- Vernon-Harcourt, L. F.** Sanitary Engineering with respect to Water Supply and Sewage Disposal. Med. 8vo. Pp. 442. 1907. Longmans. 17s. 6d.
- Watson, H. S.** Sewerage Systems, Their Design and Construction. Roy. 8vo. Pp. 329. 1911. Crosby Lockwood. 12s. 6d.
- Wood, F.** Sanitary Engineering: A Practical Manual of Town Drainage and Sewage and Refuse Disposal. 3rd edn. Cr. 8vo. Pp. 321. 1914. Griffin. 10s. 6d.

xiv. ILLUMINATION.

- Bloch, L.** The Science of Illumination. An Outline of the Principles of Artificial Lighting. Translated by W. C. Clinton. Demy 8vo. Pp. 180. 1912. Murray. 6s.
- Blok, A.** Elementary Principles of Illumination and Artificial Lighting. Cr. 8vo. Pp. 240. 1914. Scott, Greenwood. 4s. 6d.
- Dye, F.** Lighting by Acetylene. Cr. 8vo. Pp. 188. 1902. Spon. 6s.
- Eck, J.** Practical Illumination. 8vo. Pp. 85. 1914. Rentell. 1s.
- The Application of Arc Lamps to Practical Purposes. 8vo. Pp. 101. 1910. Rentell. 2s. 6d.
- Gaster, L., and Dow, J. S.** Modern Illuminants and Illuminating Engineering. 2nd edn. Demy 8vo. Pp. 501. 1919. Pitman. 25s.
- O'Connor, H.** Petrol Air Gas. The Installation and Working of Air Gas Lighting Systems for Country Houses. 2nd edn. Cr. 8vo. Pp. 100. 1912. Crosby Lockwood. 2s. 6d.

- Ogley, D. H.** Works Lighting. Cr. 8vo. Pp. 134. 1918. Iliffe. 7s. 6d.
- Trotter, A. P.** Illumination: Its Distribution and Measurement. 8vo. Pp. 310. 1911. Macmillan. 10s. 6d.
- xv. HEATING AND VENTILATING BUILDINGS.**
- Birks, F.** The Mathematics of Ventilation, Pumping, and Haulage. Cr. 8vo. Pp. 222. 1918. Pitman. 5s.
- Dye, F. W.** Warming Buildings by Hot Water. 2nd edn. 8vo. Pp. 322. 1917. Spon. 12s.
- Hot Water Supply. A Practical Treatise upon the Fitting of Hot Water Apparatus for domestic and general purposes. 6th edn. Cr. 8vo. Pp. 237. 1919. Spon. 8s. 6d.
- A Practical Treatise upon Steam Heating. 8vo. Pp. 251. 1901. Spon. 12s.
- Grierson, R.** Some Modern Methods of Ventilation, with Special Reference to Public Buildings: Standards of Ventilation, Design of Ducts, Selection of Fans, Washers and Heaters, etc. Demy 8vo. Pp. 202. 1916. Constable. 8s. 6d.
- Hart, J. W.** The Principles of Hot Water Supply. Demy 8vo. Pp. 177. 1900. Scott, Greenwood. 8s. 6d.
- Innes, C. H.** Centrifugal and Axial Fans. 2nd edn. Cr. 8vo. Pp. 302. 1916. Technical Pub. Co. 10s. 6d.
- Raynes, F. W.** Heating Systems: Design of Hot Water, and Steam Heating Apparatus. 2nd edn. 8vo. Pp. 344. 1921. Longmans. 21s.
- White, W. L., and G. M.** Heating Engineers' Quantities. Small folio. Pp. 33 and Plates. 1910. Spon. 10s. 6d.
- xvi. REFUSE DISPOSAL.**
- Goodrich, W. F.** Modern Destructor Practice. Med. 8vo. Pp. 294. 1912. Griffin. 18s.
- Refuse Disposal and Power Production. Demy 8vo. Pp. 398. 1904. Constable. 16s.
- Small Dust Destructors for Institutional and Trade Refuse. Demy 8vo. Pp. 127. 1904. Constable. 4s.
- Matthews, E. R.** Refuse Disposal. 2nd edn. in preparation. Griffin.

BUILDING CONSTRUCTION.

i. GENERAL.

- Adams, H.** *The Mechanics of Building Construction.* 8vo. Pp. 252. 1912. Longmans. 7s. 6d.
- Advanced Building Construction.** By the Author of 'Rivington's Notes.' Cr. 8vo. Pp. 254. 1915. Longmans. 6s.
- Allen, J. P.** *A Practical Handbook of Building Construction.* 5th edn. Med. 8vo. Pp. 596. 1909. Crosby Lockwood. 5s. 6d.
- Burns, G. J.** *Glossary of Technical Terms used in Architecture and the Building Trades.* Cr. 8vo. Pp. 136. Spon. 4s.
- Burrell, E. J.** *Building Construction.* Cr. 8vo. Pp. 260. 1919. Longmans. 4s.
- Clarke, J. W.** *Pocket-book of Tables and Memoranda for Plumbers, Builders, Sanitary and Electrical Engineers, etc.* 5th edn. Pocket size. Pp. 300. 1909. Batsford. 2s. 6d.
- Cunningham, B.** *Building Construction: First Stage.* 2nd edn. 5th imp. Cr. 8vo. Pp. 336. 1915. University Tutorial Press. 3s. 6d.
- Dean, A.** *Building Construction.* 2 Pts. 8vo. Pp. 128., 189. 1913-14. Routledge. 5s. 6d.
- Eaton, R. B.** *Building Construction Drawing. A Class Book for the Elementary Student and Artisan.* Imp. 8vo. Pp. 463, +157 Plates. 1921. 16s. Part 1. Pp. 59, +26 Plates. 1914. 2s. Part 2. Pp. 64, +26 Plates. 1914. 2s. Part 3. Pp. 80, +25 Plates. 1917. 3s. 6d. Part 4. Pp. 88, +24 Plates. 1919. 5s. Part 5. Pp. 96, +26 Plates. 1919. 5s. Spon.
- Fowler's Architects' and Builders' Handbook, 1920.** Pocket size. Pp. 500. January. Scientific Pub. Co. 2s. 6d.
- Fullerton, W.** *Architectural Examples in Brick, Stone, Wood and Iron.* 3rd edn. 4to. Pp. 254, 245 Plates. 1914. Spon. 21s.
- Harrison, P. T.** *Bungalow Residences.* 2nd edn. Demy 8vo. Pp. 94 and 24 Plates. 1920. Crosby Lockwood. 7s. 6d.
- Hurst, J. T.** *Handbook of Formulae, Tables, and Memoranda, for Architectural Surveyors, and others engaged in Building.* 15th edn. Oblong 32mo. Pp. 512. 1920. Spon. 7s. 6d.
- Innocent, C. F.** *The Development of English Building Construction.* Roy. 8vo. Pp. 310. 1916. Cambridge University Press. 12s.
- Jaggard, W. R.** *Architectural and Building Construction Plates.* Part 1. 30 Drawings (Elementary). 30 Plates in Portfolio. 1913. 10s. 6d. Part 2. 30 Drawings (Advanced). 30 Plates in Portfolio. 1914. 10s. 6d. Cambridge University Press.
- and **Drury, F. E.** *Architectural Building Construction.* Demy 8vo. Vol. 1. Pp. 328. 1916. Cambridge University Press. 7s. 6d.
- Manson, G. L.** *Experimental Building Science.* Demy 8vo. Vol. 1. Pp. 218. 1917. Cambridge University Press. 7s.
- Mitchell, C. F., and G. A.** *Building Construction and Drawing. A Text-book on the Principles and Details of Modern Construction.* 9th edn. Cr. 8vo. Part 1. Pp. 470. 1919. 6s. 6d. Part 2. Advanced Course. Pp. 985. 1919. 10s. 6d. Batsford.

Building Construction.

- Molesworth, H. B.** Obstruction to Light. A graphic method for the easy determination of questions affecting Ancient Lights. 4to. 1902. Spon. 6s.
- Passmore, A. C.** Handbook of Technical Terms used in Architecture and Building, and their Allied Trades and Subjects. Demy 8vo. Pp. 380. 1904. Scott, Greenwood. 8s. 6d.
- Pearson, J. H.** Suburban Houses. A Series of Practical Plans, with Notes on Design and Principles of Construction. 4to. Pp. 12, and 46 Plates. 1905. Spon. 7s. 6d.
- Pite, B., and others.** Building Construction. 2 Vols. Med. 8vo. 1920. Vol. 1. Pp. 460. Vol. 2. Pp. 370. Longmans. 16s. each vol.
- Reid, J. A.** Building Construction and Architectural Drawing. 18 Plates with text. 1911. Blackie. 4s. 6d.
- Riley, J. W.** Building Construction for Beginners. New Imp. Gl. 8vo. Pp. 314. 1920. Macmillan. 5s.
- Rivington's Notes on Building Construction.** A Book of Reference for Architects and Builders and a Text-Book for Students. New edn. of First Two Parts edited by W. N. Twelvetrees. Demy 8vo. Part 1. Pp. 316. 1915. 9s. Part 2. Pp. 342. 1915. 9s. Part 3. Materials. 7th edn. Pp. 546. (1910) 1919. 22s. 6d. Part 4. Calculations for Building Structures. 8th edn. Pp. 398. (1912) 1920. 15s. Longmans.
- Sage, A. R., and Fretwell, W. E.** A Text-book of Elementary Building Construction. Cr. 8vo. Pp. 302. 1914. Methuen. 5s.
- Samson, C. G.** Every Man His Own Builder. 3rd edn. 8vo. Pp. 362. 1920. Crosby Lockwood. 15s.
- Houses, Villas, Cottages and Bungalows. 2nd edn. Demy 8vo. Pp. 150. 1920. Crosby Lockwood. 7s. 6d.
- How to Plan a House. For those about to Build. 2nd edn. Cr. 8vo. Pp. 150. 1914. Crosby Lockwood. 5s.
- Stock, C. H., and Farrow, F. R.** Treatise on Shoring and Underpinning. 3rd edn. 8vo. Pp. 84. 1902. Batsford. 5s. 6d.
- ii. ESTIMATES: QUANTITIES: SUPERVISION: REPAIRS.**
- Bales, T.** The Builders' Clerk. a Guide to the Management of a Builder's Business. 2nd edn. Fcap. 8vo. 1904. Spon. 2s.
- Ballard, W. E.** Builders' Quantities. Cr. 8vo. Pp. 131. 1913. Longmans. 3s. 6d.
- Blagrove, G. H.** Dangerous Structures and How to Deal With Them. A Handbook for Practical Men. 2nd edn. Cr. 8vo. Pp. 168. 1906. Batsford. 5s. 6d.
- Blake, E. G.** Building Repairs. A Practical Guide to their Execution. Demy 8vo. Pp. 216. 1921. Batsford. 8s. 6d.
- Chatterton, F.** (edited by). Specification, with which is incorporated the Municipal Engineer's Specification. No. 23. 1921. Folio. Pp. 552. Feb., 1921. "Technical Journal." 10s. 6d.
- Coleman, T. E.** Approximate Estimates, a Pocket book for Estimating, compiled for the use of Architects, Engineers, Estate Agents, Contractors, etc. 5th edn. 16mo. Pp. 451. 1920. Spon. 10s. 6d.
- New Standard Building Prices. For the use of Architects, Civil Engineers, Builders, Contractors, etc. Cr. 8vo. Pp. 44. 1919. Spon. 4s.
- Fletcher, Sir B. F., and H. P.** Dilapidations, containing all recent Legal Decisions and a chapter on Fixtures. 7th edn. Cr. 8vo. Pp. 200. 1914. Batsford. 7s. 6d.
- Quantities. A Text-book in Tabulated Form for the use of Architects, Surveyors, and Builders. Revised by H. P. Fletcher. 8th edn. Cr. 8vo. Pp. 460. 1910. Batsford. 10s.
- Grey, G. W.** Building Supervision. Cr. 8vo. Pp. 158. 1913. Spon. 3s. 6d.

Building Construction.

- Grubb, H. C.** Builders' Quantities. 2nd edn. Cr. 8vo. Pp. 244. 1913. Methuen. 6s. 6d.
- Hoskins, G. G., and H. P.** The Clerk of Works. A Vade Mecum for all engaged in the superintendence of Building Operations. 8th edn. Fcap. 8vo. Pp. 64. 1914. Spon. 2s. 6d.
- Hurst, J. T.** A Handbook of Formulae, Tables and Memoranda for Architectural Surveyors and Draughtsmen. 16th edn. Oblong 32mo. Pp. 712. 1921. Spon. 10s.
- Laxton's Builders' Price Book** for 1921. Containing about 73,000 Prices, originally compiled by W. Laxton. 104th edn. Cr. 8vo. Pp. 645. Feb., 1921. Kelly. 7s. 6d.
- Leaning, J.** Quantity Surveying, for the use of Surveyors, Architects, Engineers and Builders. 5th edn. 8vo. Pp. 936. 1912. Spon. 25s.
- Lewis, H. M.** Builders' Quantities. Cr. 8vo. Pp. 54. 1911. Spon. 2s. 6d.
- Lockwood's Builders', Architects', Contractors', and Engineers' Price Book** for 1921. Edited by R. S. Ayling. Cr. 8vo. Pp. 860. Jan., 1921. Crosby Lockwood. 7s. 6d.
- The Master Builders' Handbook and Diary**, 1921. The Official Year Book of the London Master Builders' and Allied Industries Association. Cr. 8vo. Pp. 127 and Diary. 1921. "The Builder," Ltd. 2s. 6d.
- Metson, G.** The Clerk of Works. A Handbook on the Supervision of Building Operations. Cr. 8vo. Pp. 190. 1913. Crosby Lockwood. 3s. 6d.
- Oultram, J. F.** The Builders' Foreman. A Practical Guide to his Training. Cr. 8vo. Pp. 208. 1916. Batsford. 7s. 6d.
- Purchase, W. R.** Elementary Manual of Building Inspection. Cr. 8vo. Pp. 136. 1910. Crosby Lockwood. 3s. 6d.
- Rea, J. T.** How to Estimate. Being a Complete and thoroughly up-to-date Analysis of Builders' Prices. 4th edn. 8vo. Pp. 530. 1919. Batsford. 10s. 6d.
- Stephenson, G.** Estimating. A Method of Pricing Builders' Quantities for Competitive Work, without the use of a Price Book. 6th edn. Cr. 8vo. Pp. 178. 1913. Batsford. 5s. 6d.
- The Quantity Students' Assistant. A Handbook of Practical Notes and Memoranda for those learning to take-off Quantities. Cr. 8vo. Pp. 124. 1907. Batsford. 4s.
- Pricing of Quantities. Ex. Cr. 8vo. Pp. 217. 1910. Constable. 5s.
- Repairs. How to Measure and Value Them. A Handbook for the use of Builders, Decorators, etc. 4th edn. Cr. 8vo. Pp. 108. 1913. Batsford. 4s.
- Young, C.** (edited by). Spon's Practical Builders' Pocket-book. A Reference book of Memoranda, Tables and Official Rules and Regulations for Architects and Builders. 3rd edn. Fcap. 8vo. Pp. 532. 1921. Spon. 10s. 6d.
- Spon's Architects' and Builders' Pocket Price Book, 1921. 47th edn. Fcap. 8vo. Pp. 298. 1921. Spon. 6s.

iii. BUILDING LAW: ARBITRATION.

- Cubitt, H.** Building in London. A Treatise on the Law and Practice affecting the Erection and Maintenance of Buildings in the Metropolis. Super. Roy. 8vo. Pp. 811. 1911. Constable. 31s. 6d.
- Fletcher, Sir B. F., and H. P.** Light and Air, with Methods of Estimating Injuries, Reports of recent Cases, etc. 5th edn. Cr. 8vo. Pp. 160 and Plates. 1904. Batsford. 7s. 6d.
- Valuations and Compensations. A comprehensive Treatise on Valuing Land and Houses. 4th edn. Cr. 8vo. Pp. 470. 1913. Batsford. 10s.

Building Construction.

Fletcher, Sir B. F., and H. P. London Building Acts, 1894-1909. 5th edn. Cr. 8vo. Pp. 700. 1914. Batsford. 10s.

—Arbitrations. A Text Book with the Chief Cases and Forms, Rules, etc. 3rd edn. Cr. 8vo. Pp. 175. 1904. Batsford. 6s.

Rimmer, E. J. The Arbitration Clause in Engineering and Building Contracts. Cr. 8vo. Pp. 24. 1912. Constable. 2s.

iv. BUILDING MATERIALS.

Middleton, G. A. T. Building Materials: Their Nature, Properties, and Manufacture. 2nd edn. Large Cr. 8vo. Pp. 450. 1916. Batsford. 10s. 6d.

Munby, A. E. Introduction to the Chemistry and Physics of Building Materials. Ex. Cr. 8vo. Pp. 365. 1909. Constable. 7s. 6d.

v. CARPENTRY: WOODWORK AND ALLIED TRADES.

Arkwright, J. P. (edited by). Carpentry and Cabinet Making for Amateurs. 2nd edn. Cr. 8vo. Pp. 224. 1919. "Exchange and Mart." 4s.

Ashcroft, H. J. Boat Building Simplified. 3rd edn. Demy 8vo. Pp. 74. 1919. Reisch. 5s.

Barter, S. Manual Instruction: Woodwork. 4th edn. Fcap. 4to. Pp. 364. 1905. Pitman. 7s. 6d.

—Manual Instruction: Drawing. Showing the application of Geometrical Drawing to Manual Instruction in Wood and Metal. Fcap. 4to. Pp. 80. 1896. Pitman. 4s.

Binstead, H. E. Furniture. Cr. 8vo. Pp. 142. 1918. Pitman. 3s.

Boulton, B. C. The Manufacture and Use of Plywood and Glue. Demy 8vo. Pp. 98. 1920. Pitman. 7s. 6d.

Bowers, R. S., and others. Furniture Making. Demy 8vo. Pp. 416. 1919. Cassell. 8s. 6d.

Denning, D. The Art and Craft of Cabinet-making. Cr. 8vo. Pp. 320. 1891. Pitman. 6s.

Ellis, G. Modern Practical Joinery. A Treatise on the Practice of Joiner's Work by Hand and Machine. 4th edn. Cr. 4to. Pp. 565. 1921. 45s. Also in 3 parts. Part 1. Drawing, Tools, Workshop Practice, Woodworking Machinery. Pp. 231. 15s. Part 2. Constructional Joinery in House, Shop, and Public Buildings. Pp. 271. 18s. Part 3. Advanced Joinery, Setting-Out, Timber, etc. Pp. 187. 12s. 6d. Batsford.

—Modern Practical Carpentry. For the use of Workmen, Builders, Architects, and Engineers. Erecting Roofs, Floors, Partitions, Scaffolding, Shoring, Foundations, Bridges, Gates, Houses, etc. Cr. 4to. Pp. 450. 1915. Batsford. 30s.

Fletcher, Sir B. F., and H. P. Carpentry and Joinery. A Text-book for Architects, Engineers, Surveyors, Craftsmen, and Students. 4th edn. Cr. 8vo. Pitman. 10s. 6d.

Hasluck, P. N. (edited by). Wood Carving: Comprising Practical Instructions and Examples. Roy. 8vo. Pp. 568. Cassell. 9s.

—Greenhouse and Conservatory Construction and Heating. Cr. 8vo. Pp. 168. 1907. Cassell. 3s.

Hurst, J. T. Principles of Carpentry. Based upon the original work of Thomas Tredgold. 12th edn. Cr. 8vo. 1919. Spon. 10s. 6d.

Jack, G. Woodcarving Design and Workmanship. 2nd edn. Cr. 8vo. Pp. 320. 1913. Pitman. 7s. 6d.

Jackson, F. G. Wood Carving as an Aid to the Study of Elementary Art. 2nd edn. Demy 8vo. Pp. 65. 1913. Chapman and Hall. 4s. 6d.

Jones, B. E. (edited by). The Complete Woodworker. Demy 8vo. Pp. 416. 1919. Cassell. 8s. 6d.

Leland, C. G. Wood-Carving. 5th edn. Fcap. 4to. Pp. 162. Pitman. 5s.

Building Construction.

- Phillipson, J.** *The Art and Craft of Coach Building.* Small post 8vo. Pp. 191. 1897. Bell. 6s.
- Ricks, G.** *Manual Training: Woodwork.* A Handbook for Teachers. Cr. 4to. Pp. 196. 1907. Macmillan. 8s. 6d.
- Riley, J. W.** *Manual of Carpentry and Joinery.* Cr. 8vo. Pp. 518. 1919. Macmillan. 6s.
- Rowe, E.** *Practical Wood-Carving.* 2nd edn. 8vo. Pp. 97. 1918. Batsford. 4s.
- Rudd, J. H.** *Practical Cabinet Making and Draughting.* 1p. 172. 1912. Benn Bros. 5s. 6d.
- Scott, W. A.** *Handrailing for Geometrical Staircases.* Cr. 8vo. Pp. 58. 1915. Pitman. 2s. 6d.
- Sturch, F.** *Manual Training Drawing (Woodwork).* Its Principles and Applications. Fcap. Pp. 78. 1906. Methuen. 7s. 6d.
- Terry, C. W.** *Practical Motor Body Building.* A Practical Treatise on the various branches of Motor Body Construction, for Coachbuilders, Draughtsmen, Designers, Students, and others. Demy 8vo. Pp. 348. 1921. Spon. 15s.
- Wake, R.** *The New Education: Woodwork.* A Text Book of Manual Instruction, with descriptive lessons on Wood, Tools, and Benchwork. Demy 8vo. 1910. 11s. Also in 3 Parts. 4s. each. Chapman and Hall. •
- Webber, F. C.** *Carpentry and Joinery.* 7th edn. Cr. 8vo. Pp. 336. 1919. Methuen. 6s.
- Wells, P. A., and Hooper, J.** *Modern Cabinet Work, Furniture and Fittings.* An Account of the Theory and Production with over 1,000 Workshop Drawings, etc. 2nd edn. in preparation. Cr. 4to. Pp. 400. Batsford. 30s.
- vi. COB AND PISE WORK.**
- Williams-Ellis, C.** *Cottage Buildings in Cob, Pisé, Chalk and Clay.* Demy 8vo. Pp. 125. 1919. "Country Life" Office. 6s.
- vii. BRICKS AND TILES: ARTIFICIAL AND MASONRY STONE.**
- Ackworth, A. T.** *The Manufacture of Roofing Tiles.* Cr. 8vo. Pp. 136. n.d. Maclaren. 3s. 6d.
- Bourry, E.** *A Treatise on Ceramic Industries.* A Complete Manual for Pottery, Tile, and Brick Manufacturers. Translated, with some Critical Notes, by A. B. Searle. 3rd edn. Demy 8vo. Pp. 488. 1919. Scott, Greenwood. 14s. 6d.
- Kloes, J. A. Van Der.** *A Manual for Masons, Bricklayers, Concrete Workers and Plasterers.* Revised and Adapted by A. B. Searle. Demy 8vo. Pp. 247. 1914. Churchill. 8s. 6d.
- Lefèvre, L.** *Architectural Pottery.* Bricks, Tiles, Pipes, Enamelled Terra-cottas, Ordinary and Incrusted Quarries, Stoneware Mosaics, Fences and Architectural Stoneware. Roy. 8vo. Pp. 500. 1900. Scott, Greenwood. 17s.
- Mitchell, C. F., and G. A.** *Brickwork and Masonry.* A Practical Text-book for Students and those engaged in the Design and Execution of Structures in Brick and Stone. New edn. in preparation. Batsford.
- Passmore, A. C.** *Sand and Clay: Their Analysis and Physical Properties.* Cr. 8vo. Pp. 48. 1907. Technical Pub. Co. 2s. 9d.
- Renwick, W. G.** *Marble and Marble Working.* Med. 8vo. Pp. 250. 1909. Crosby Lockwood. 16s.
- Searle, A. B.** *Modern Brickmaking.* 2nd edn. Roy. 8vo. Pp. 510. 1920. Scott, Greenwood. 17s. 6d.
- *An Introduction to British Clays, Shales, and Sands.* 2nd edn. in preparation. Griffin.
- *The Natural History of Clay.* Roy. 16mo. Pp. 183. 1912. Cambridge University Press 2s. 6d.
- *Clays and Clay Products.* 2nd edn. Cr. 8vo. Pp. 172. 1915. Pitman. 3s.

Building Construction.

- Searle, A. B.** Bricks and Artificial Stones of Non-Plastic Materials: Their Manufacture and Uses. 4to. Pp. 160. 1915. Churchill. 8s. 6d.
- Watson, J.** British and Foreign Building Stones. Cr. 8vo. Pp. 492. 1911. Cambridge University Press. 6s. 6d.
- British and Foreign Marbles and other Ornamental Stones. Cr. 8vo. Pp. 496. 1916. Cambridge University Press. 5s.
- viii. CEMENT: CONCRETE.
- Ballard, F.** Concrete for House, Farm and Estate. 2nd edn. 8vo. Pp. 65. 1920. Crosby Lockwood. 3s. 6d.
- Blount, B.** Cement: Manufacture; Power; Testing; Methods of Analysis; Chemistry; Uses and By-Products. Assisted by W. H. Woodcock & H. J. Gillett. Demy 8vo. Pp. 296. 1920. Longmans. 18s.
- Butler, D. B.** Portland Cement: Its Manufacture, Testing, and Use. 3rd edn. 8vo. Pp. 458. 1913. Spon. 21s.
- Calcare.** The Cement Users' and Buyers' Guide. 32mo. Pp. 115. 1901. Spon. 2s.
- Dancaster, E. A.** Limes and Cements: their Nature, Manufacture, and Use. 2nd edn. Cr. 8vo. Pp. 232. 1920. Crosby Lockwood. 7s. 6d.
- Desch, C. H.** The Chemistry and Testing of Cement. Demy 8vo. Pp. 276. 1911. E. Arnold. 12s.
- Gatehouse, F. B.** A Handbook for Cement Works' Chemists. 2nd edn. Med. 8vo. Pp. 772. 1917. Griffin. 6s.
- Lakeman, A.** (edited by). Concrete Cottages, Small Garages and Farm Buildings. 8vo. Pp. 182. 1918. Concrete Publications, Ltd. 5s.
- Potter, T.** Concrete: Its Use in Building. 3rd edn. Demy 8vo. Pp. 350. 1908. Batsford. 8s. 6d.
- Poulsen, A.** Cement in Sea-Water. 8vo. Pp. 59. 1909. Spon. 3s.
- Redgrave, G. R., and Spackman, C.** Calcareous Cements: Their Nature, Preparation and Uses. With some Remarks upon Cement Testing. 2nd edn. Med. 8vo. Pp. 328. 1905. Griffin. 18s.
- Searle, A. B.** The Chemistry of Cement, Concrete and Bricks. Demy 8vo. Pp. 423. 1913. Constable. 10s. 6d.
- Setting of Cements and Plasters, The.** Faraday Society Report. 1918. Demy 8vo. Pp. 71. 1918. Faraday Society. 5s. 6d.
- Sutcliffe, G. L.** Concrete: Its Nature and Uses; for Architects, Builders, etc. 2nd edn. Cr. 8vo. Pp. 396. 1905. Crosby Lockwood. 10s. 6d.
- Wheatley, O.** Ornamental Cement Work. Demy 8vo. Pp. 128. 1912. Scott, Greenwood. 6s.
- ix. RE-INFORCED CONCRETE.
- Adams, H., and Matthews, E. R.** Reinforced Concrete Construction in Theory and Practice. 2nd edn. 8vo. Pp. 330. 1916. Longmans. 15s.
- Andrews, E. S.** Elementary Principles of Re-Inforced Concrete Construction. 2nd edn. Cr. 8vo. Pp. 260. 1918. Scott, Greenwood. 5s.
- Regulations of the L.C.C. Relating to Reinforced Concrete. 1916. The official Text, Notes, Explanations, etc. Cr. 8vo. Pp. 78. 1916. Batsford. 3s.
- Ball, J. D. W.** Reinforced Concrete Railway Structures. Demy 8vo. Pp. 227. 1913. Constable. 9s.
- Cantell, M. T.** Reinforced Concrete Construction. Part 1. 2nd edn. Cr. 8vo. Pp. 168. 1918. 8s. 6d. Part 2. 8vo. Pp. 256. 1912. 15s. Spon.
- Coleman, T. E.** Estimating for Reinforced Concrete Work. Cr. 8vo. Pp. 154. 1912. Batsford. 5s.
- Davenport, J. A.** Graphical Reinforced Concrete Design. A series of Diagrams on Sheets. 1911. Spon. 6s.

Building Construction.

Etchells, E. F. Mnemonic Notations for Engineering Formulæ. Report of the Science Committee of the Concrete Institute with Explanatory Notes by E. F. Etchells. Demy 8vo. Pp. 115. 1919. Spon. 6s.

Faber, O., and Bowie, P. G. Reinforced Concrete Design. Demy 8vo. Vol. 1. Theory. Pp. 352. 1919. 14s. Vol. 2. Practice. By O. Faber. Pp. 258. 1920. Arnold. 18s.

Gammon, J. C. Reinforced Concrete Design Simplified: Diagrams, Tables, and other Data. 2nd edn. Demy 4to. Pp. 124. 1913. Crosby Lockwood. 15s.

Geen, B. Continuous Beams in Reinforced Concrete. Imp. 4to. 1912. Chapman & Hall. 10s.

Marsh, C. F. A Concise Treatise on Reinforced Concrete. 3rd imp. Demy 8vo. Pp. 233. 1926. Constable. 12s. 6d.

—Reinforced Concrete Compression Member Diagram. Roy. 8vo. 1914. In cloth covers, mounted on linen. 5s. Unmounted. 3s. 6d. Constable.

—and **Dunn, W.** Manual of Reinforced Concrete. 3rd edn. Feap. 8vo. Pp. 491. 1916. Constable. 14s.

Martin, N. Properties and Design of Reinforced Concrete. Feap. 4to. Pp. 131. 1912. Constable. 8s.

Rings, F. Reinforced Concrete Bridges. Imp. 8vo. Pp. 193. 1913. Constable. 21s.

Scott, A. A. H. Reinforced Concrete in Practice. Gr. 8vo. Pp. 190. 1915. Scott, Greenwood. 5s.

Twelvetrees, W. N. Reinforced Concrete. A Treatise on the Theory and Practice of Reinforced Concrete Construction. Demy 8vo. Pp. 275. 1920. Pitman. 21s.

—Practical Design of Reinforced Concrete Beams and Columns. Cr. 8vo. Pp. 167. 1911. Pitman. 7s. 6d.

—Concrete-Steel Buildings. Cr. 8vo. Pp. 408. 1907. Pitman. 12s.

Williamson, J. Calculating Diagrams for Design of Reinforced Concrete Sections. Imp. 8vo. Pp. 44. 1920. Constable. 12s.

x. IRON AND STEEL CONSTRUCTION.

Andrews, E. S., and Cocking, W. C. Tables of Safe Loads on Steel Pillars with Practical Notes on Design and Construction. Vol. 1. Plated Single \square Beams. Demy 8vo. 1918. Pitman. 6s.

Beck, E. G. Structural Steelwork: Relating principally to the Construction of Steel Framed Buildings. 8vo. Pp. 462. 1920. Longmans. 21s.

Cocking, W. C. The Calculations for Steel-Frame Structures. Cr. 8vo. Pp. 312. 1917. Scott, Greenwood. 6s.

Farnsworth, A. W. Constructional Steelwork. 2nd edn. in preparation. Griffin.

Fidler, H. Notes on Construction in Mild Steel. Med. 8vo. Pp. 462. 1907. Longmans. 18s. 6d.

Hasluck, P. N. (edited by). Iron, Steel, and Fireproof Construction. Cr. 8vo. Pp. 168. 1906. Cassell. 3s.

Schindler, K. Iron and Steel Constructional Work. Translated and Revised from the German, and adapted to British practice. Cr. 8vo. Pp. 140. 1912. Scott, Greenwood. 4s. 6d.

Sexton, A. H. The Corrosion and Protection of Metals, with special reference to the Preservation of Engineering Structures. Cr. 8vo. Pp. 148. 1906. Scientific Pub. Co. 5s.

Skelton, R. A. and Co. (compiled by). Structural Steel. Consisting of Tables and Notes for Engineers, Architects, Contractors and Iron Merchants. Feap. 4to. Pp. 320. 1915. Pitman. 10s.

Spencer, A. S. Practical Design of Steel-Framed Sheds. Roy. 8vo. Pp. 177. 1915. Constable. 12s.

Twelvetrees, W. N. Structural Iron and Steel. Cr. 8vo. Pp. 163. 1900. Pitman. 7s. 6d.

Building Construction.

xi. MISCELLANEOUS

Holt, H. G. Fire Protection in Buildings: a Practical Treatise for Engineers, Architects, etc. Demy 8vo. Pp. 280. 1913. Crosby Lockwood. 9s.

Keim, A. W. The Prevention of Dampness in Buildings: with Remarks on the Causes, Nature and Effects of Saline, Efflorescences and Dry-rot. Translated from the German. Cr. 8vo. Pp. 115. 1902. Scott, Greenwood. 6s.

Montel, A. Building Structures in Earthquake Countries. From the Italian, with additions by the Author. Cr. 4to. Pp. 138. 1912. Griffin. 10s. 6d.

xii TOWN PLANNING.

Aldridge, H. A. The Case for Town Planning. A Practical Manual. Roy. 8vo. Pp. 679. 1915. Net. Housing and Town Planning Council. 15s.

Cadbury, G. Town Planning, with special Reference to the Birmingham Schemes. 2nd imp. 8vo. Pp. 218. 1915. Longmans. 8s.

Julian, J. An Introduction to Town Planning: the Principles of the Subject, and a consideration of the Problems Involved, Powers of Local Authorities, etc. Cr. 8vo. Pp. 156. 1914. Griffin. 6s.

Lanchester, H. V. Town Planning in Madras. 4to. Pp. 123. 1918. Constable. 12s. 6d.

Nettlefold, J. S. Practical Town Planning: A Land and Housing Policy. Cr. 8vo. Pp. 493. 1914. St. Catherine Press. 2s. 6d.

Triggs, H. I. Town Planning: Past, Present and Possible. 2nd edn. Roy. 8vo. Pp. 336. Methuen. 16s.

Unwin, R. Town Planning in Practice. An introduction to the Art of Designing Cities and Suburbs. 6th imp. Cr. 4to. Pp. 448. 1919. Fisher Unwin. 31s. 6d.

Webb, W. Garden First in Land Development. 2nd edn. 8vo. Pp. 142. 1920. Longmans. 5s.

xiii. HOUSE DECORATION: PAINTS, ETC.

Bates, A. Motor and Carriage Painting. A Practical Manual. Cr. 8vo. Pp. 164. 1915. Trade Paper Pub. Co. 4s.

Brown, W. N. House Decorating and Painting. Cr. 8vo. Pp. 150. 1900. Scott, Greenwood. 4s. 6d.
—Workshop Wrinkles for Decorators, Painters, Paperhangers, and Others. 2nd edn. Cr. 8vo. Pp. 128. 1907. Scott, Greenwood. 2s. 6d.

Coach Painters' Handbook and Guide, The. Cr. 8vo. Pp. 133. Trade Paper Pub. Co. 2s. 6d.

Desaint, A. Three Hundred Shades and How to Mix Them. For Architects, Painters and Decorators. Folio. 100 Plates. 1907. Scott, Greenwood. 23s.

Duthie, A. I. Stencils and Stencilling: for all Artistic and Decorative purposes. Cr. 8vo. Pp. 163. 1914. Trade Paper Pub. Co. 4s.

Ermen, W. F. A. Materials Used in Sizing. Cr. 8vo. Pp. 126. 1912. Constable. 6s.

Fleury, P. The Preparation and Uses of White Zinc Paints. Translated from the French. Cr. 8vo. Pp. 280. 1912. Scott, Greenwood. 7s.

Galloway, J. H. Staining, Varnishing and Enamelling. Cr. 8vo. Pp. 122. 1910. Trade Paper Pub. Co. 4s.

Hasluck, P., N. (edited by). House Decoration. Roy. 8vo. Pp. 568. 1913. Cassell. 9s.

—Practical Graining and Marbling. Cr. 8vo. Pp. 168. 1911. Cassell. 3s.

Hurst, G. H. Colour: A Handbook of the Theory of Colour. 2nd edn. Demy 8vo. Pp. 168. 1916. Scott, Greenwood. 8s. 6d.

—Painters' Colours, Oils, and Varnishes. 6th edn. Revised by N. Heaton in preparation. Griffin.

—The Painter's Laboratory Guide. A Student's Handbook of Paints, Colours, and Varnishes. 2nd edn. in preparation. Griffin.

Building Construction.

- Jennings, A. S.** Commercial Paints and Painting. A Handbook for Architects, Engineers, Property Owners, Painters and Decorators. Ex. Cr. 8vo. Pp. 236. 1914. Constable. 7s. 6d.
- Paint and Colour Mixing: A Practical Handbook. 5th edn. Demy 8vo. Pp. 250. 1921. Spon. 12s. 6d.
- Paints and Varnishes, with special reference to their Properties and Uses. Cr. 8vo. Pp. 116. 1920. Pitman. 3s.
- and **Harrison, C.** The Painters' Pocket Book. 4th edn. Pott 8vo. Pp. 258. 1920. Trade Paper Pub. Co. 4s. 6d.
- Jones, M. W.** The Testing and Valuation of Raw Materials used in Paint and Colour Manufacture. For the Laboratories of Colour Works. Cr. 8vo. Pp. 88. 1900. Scott, Greenwood. 6s.
- Millar, A.** Scumbling and Colour Glazing. Cr. 8vo. Pp. 86. 1909. Trade Paper Pub. Co. 4s.
- Oliver, C. E.** The Painters' Business Book. Cr. 8vo. Pp. 213. 1914. Trade Paper Pub. Co. 4s.
- Pearce, W. J.** Painting and Decorating: A complete Practical Manual for House Painters and Decorators. 4th edn. Cr. 8vo. 1913. Griffin. 12s. 6d.
- Rothery, G. C.** Decorators' Symbols, Emblems, and Devices. Cr. 8vo. Pp. 130. 1907. Trade Paper Pub. Co. 3s. 6d.
- Scott-Mitchell, F.** Practical Gilding, Bronzing, Lacquering and Glass Embossing. Cr. 8vo. Pp. 184. 1907. Trade Paper Pub. Co. 3s. 6d.
- Smith, J. C.** Paint and Painting Defects, their Detection, Cause and Cure. Cr. 8vo. 1912. Trade Paper Pub. Co. 4s.
- and **Laurie, A. P.** Zinc Oxide and its Uses. Cr. 8vo. Pp. 108. 1909. Trade Paper Pub. Co. 2s. 6d.
- Wright, A. C.** Simple Methods for Testing Painters' Materials. Cr. 8vo. Pp. 160. 1903. Scott, Greenwood. 6s.

NAVAL ARCHITECTURE, SHIP-BUILDING.

i. GENERAL.

- Atherton, W. H., and Mellanby, A. L.** Resistance and Power of Steamships. Cr. 8vo. Pp. 208. 1903. Technical Pub. Co. 6s. 9d.
- Attwood, E. L.** War Ships: A Text-book on the Construction, Protection, Stability, etc., of War Vessels. 6th edn. Med. 8vo. Pp. 346. 1917. Longmans. 14s.
- Text-book of Theoretical Naval Architecture. 7th edn. 4th imp. Cr. 8vo. Pp. 506. (1916). 1919. Longmans. 10s. 6d.
- The Modern Warship. Roy. 16mo. Pp. 153. 1911. Cambridge University Press. 2s. 6d.
- and Cooper, I. C. G.** A Text-Book on Laying-off, or the Geometry of Ship-building. 2nd edn. new imp. 8vo. Pp. 132. 1918 (1919). Longmans. 7s. 6d.
- Ayre, A. L.** The Theory and Design of British Shipbuilding. Illustrated by 85 Diagrams. 8vo. Pp. 167. 1920. T. Reed. 6s. 6d.
- Baker, G. S.** Ship Form, Resistance, and Screw Propulsion. Treated from the practical point of view for the use of Naval Architects, Engineers, and Draughtsmen. 2nd edn. Demy 8vo. Pp. 270. 1921. Constable. 16s.
- Barnaby, S. W.** 'Marine Propellers. 6th edn. 8vo. Pp. 230. 1920. Spon. 24s.
- Biles, Sir J. H.** The Design and Construction of Ships. Vol. 1. Calculations and Strength. 2nd edn. Large. 8vo. Pp. 448. 1919. 34s. Vol. 2. 2nd edn. in preparation. Griffin.
- Blocksidge, E. W.** Ships' Boats. Their Qualities. Construction, Equipment, and Launching Appliances. 8vo. Pp. 500. 1920. Longmans. 25s.
- Brassey's Naval and Shipping Annual.** 1920-21. Edited by A. Richardson and A. Hurd. Roy. 8vo. Pp. 383. Jan. 1921. Clowes. 25s.
- Cook, C. W.** Steel Shipbuilders' Handbook. An Encyclopedia of the names of parts, tools, operations, etc., used in the building of steel ships. Cr. 8vo. Pp. 127. 1919. Longmans. 6s. 6d.
- Holms, A. C.** Practical Shipbuilding: a Treatise on the Structural Design and Building of Modern Steel Vessels. 2 vols. 3rd edn. 1916. (4th imp. 1918). Vol. 1. Text. Med. 8vo. Pp. 652. Vol. 2. Diagrams and Illustrations. Oblong 4to. Pp. 172. Longmans. 67s. 6d.
- Hovgaard, W.** General Design of Warships. Super Roy. 8vo. Pp. 315. 1920. Spon. 32s.
- Jane's Fighting Ships: 1920.** An Encyclopedia of the Navies of the World. Edited by M. Prendergast and O. Parkes. 23rd year of Issue. Oblong 4to. Pp. 580. Jan. 1921. Sampson. Low. 42s.
- Jordan, C. H.** Tabulated Weights of Iron and Steel. Tabulated Weights of Angle, Tee, Bulb, Round, Square and Flat Iron and Steel. For the use of Naval Architects, Shipbuilders, etc. 7th edn. Oblong 32mo. Pp. 742. 1918. Spon. 21s.
- Lovett, W. J.** A Complete Class-Book of Naval Architecture: Practical, Laying-off, Theoretical. 2nd imp. 8vo. Pp. 294. 1918. Longmans. 10s. 6d.

Naval Architecture, Shipbuilding.

- Lovett, W. J.** Applied Naval Architecture. Demy 8vo. Pp. 666. 1920. Longmans. 36s.
- McDermaid, N. J.** Shipyard Practice as applied to Warship Construction. 2nd edn. new imp. Med. 8vo. Pp. 336. (1917). 1918. Longmans. 17s. 6d.
- Mackrow, C., and Woollard, L.** Naval Architect's and Shipbuilder's Pocket-Book of Formulae, Rules, and Tables. 12th edn. Fcap. 8vo. Pp. 700. 1918. Crosby Lockwood. 16s.
- Mitchell, J.** Naval Architect's Data. Edited by E. L. Attwood. 8vo. Pp. 230. 1919. Longmans. 8s. 6d.
- Murray, A. J.** Strength of Ships. 8vo. Pp. 408. 1916. Longmans. 17s. 6d.
- Nicol, G.** Ship Construction and Calculations. 8vo. Pp. 518. 1920. J. Brown. 23s.
- Steele, J. E.** Naval Architecture: Part 1. Demy 8vo. Pp. 150. 1918. Cambridge University Press. 6s. 6d.
- Thearle, S. J. P.** The Modern Practice of Shipbuilding in Iron and Steel. Vol. 1. Text. Demy 8vo. Pp. 268. 1910. 5s. Vol. 2. Plates. 4to. 10s. Collins.
- Thomas, J. B.** The Strength of Ships. Cr. 8vo. Pp. 295. 1918. Scott. Greenwood. 6s.
- Torr, C.** Ancient Ships. Demy 8vo. Pp. 152. 1895. Cambridge University Press. 10s. 6d.
- Walton, T.** Present Day Shipbuilding. For Ship-yard Students, Ships Officers and Engineers. 2nd edn. in preparation. Griffin.
- Know Your Own Ship. Revised by J. King. 18th edn. Large Cr. 8vo. Pp. 414. 1920. Griffin. 9s.
- Steel Ships: Their Construction and Maintenance. A Manual for Ship Builders, Students, Marine Engineers, etc. 6th edn. Roy. 8vo. Pp. 348. 1920. Griffin. 25s.
- Watson, T. H.** Naval Architecture: A Manual of Laying-off Iron, Steel and Composite Vessels. 3rd edn. Roy. 8vo. Pp. 183. 1917. Longmans. 30s.

ii. MISCELLANEOUS.

- Boycott, G. W. M.** Compressed Air Work and Diving. Med. 8vo. Pp. 128. 1909. Crosby Lockwood. 10s. 6d.
- Davis, R. H.** A Diving Manual and Handbook of Submarine Appliances, embodying the Deep Sea Practice adopted by the British Admiralty, and including chapters on the Physics and Physiology of Diving, Salvage Operations, etc. 8vo. Pp. 271. 1919. Pitman. 7s. 6d.
- Dommett, W. E.** Submarine Vessels including Mines, Torpedoes, Guns, Steering, Propelling, and Navigating Apparatus. 5th edn. Cr. 8vo. Pp. 106. 1918. Pitman. 5s.
- Domville-Fife, C. W.** Submarine Engineering of To-Day. Cr. 8vo. Pp. 324. 1914. Seeley. 7s. 6d.
- Maginnis, A. G.** The Atlantic Ferry: Its Ships, Men, and Working. 3rd. edn. Cr. 8vo. Pp. 288. 1900. Pitman. 3s.
- Talbot, F. A.** Lightships and Light-houses. Demy 8vo. Pp. 356. 1913. Heinemann. 6s.
- Submarines. Cr. 8vo. Pp. 284. 1918. Heinemann. 5s.
- White, H. J.** Oil Tank Steamers: Their Working and Pumping Arrangements Thoroughly Explained. 2nd edn. Demy 8vo. Pp. 150. 1919. James Brown. 7s. 6d.
- Wryde, J. S.** British Light-houses: their History and Romance. Demy 8vo. Pp. 383. 1913. Fisher Unwin. 10s. 6d.

MECHANICAL ENGINEERING.

i. GENERAL.

Adams, H. Engineers' Handbook. Comprising Facts and Formulæ, Principles and Practice, in all branches of Engineering. Roy. 8vo. Pp. 582. Cassell. 9s.

—Foundations for Machinery. Cr. 8vo. Pp. 71. 1919. Technical Pub. Co. 3s. 6d.

Allen, C. C. Engineering Workshop Practice. 4th edn. Cr. 8vo. Pp. 260. 1917. Methuen. 5s.

Andrews, E. S. A Primer of Engineering Science. An Introductory Text-Book. Cr. 8vo. Pp. 76. 1918. Pitman. 4s. 6d.

Barber, T. W. The Engineer's Sketch-Book of Mechanical Movements, Devices, Appliances, Contrivances, and Details employed in the Design and Construction of Machinery for every purpose. 6th edn. 8vo. Pp. 355. 1918. Spon. 15s.

Bentley, W. Sketches of Engine and Machine Details. 8th edn. Large Cr. 8vo. Pp. 140. 1920. Chapman & Hall. 3s. 6d.

Bjorling, P. R. (edited by). Mechanical Engineers' Pocket Book. 2nd edn. Cr. 8vo. Pp. 387. 1919. Pitman. 6s.

Browne, C. L. The Fitting and Erecting of Engines. 2nd edn. Demy 8vo. Pp. 173. 1918. Emmott. 5s.

Campin, F. Mechanical Engineering. Comprising Metallurgy, Moulding, Casting, Forging, etc. 3rd edn. Cr. 8vo. 1918. Crosby Lockwood. 3s.

Charnock, G. F. Mechanical Technology: Materials and Preparatory Processes of the Mechanical Industries. Demy 8vo. Pp. 645. 1919. Constable. 12s. 6d.

Clark, D. K., and Powles, H. H. P. Mechanical Engineer's Pocket-Book. 11th edn. Small Cr. 8vo. Pp. 700. 1919. Crosby Lockwood. 7s. 6d.

Corbin, T. W. Mechanical Inventions of To-Day. Cr. 8vo. Pp. 324. 1918. Seeley. 7s. 6d.

Davies, F. H. Foundations and Machinery Fixing. New imp. Fcap. 8vo. Pp. 152. 1919. Constable. 2s. 6d.

Dommett, W. E. (edited by). Mechanics and Draughtsmen's Pocket-Book. Cr. 8vo. Pp. 135. 1919. Pitman. 2s. 6d.

Greenly, H. Model Engineering. A Guide to Model Workshop Practice. Demy 8vo. Pp. 416. 1919. Cassell. 8s. 6d.

Haler, P. J., and Stuart, A. H. A. First Course in Engineering Science. 2nd imp. Cr. 8vo. Pp. 200. 1918. University Tutorial Press. 3s. 6d.

Horner, J. G. (edited by). Lockwood's Dictionary of Terms used in the Practice of Mechanical Engineering. 5th edn. with Appendix. Cr. 8vo. Pp. 470. 1918. Crosby Lockwood. 8s. 6d.

Horton, C. M. Opportunities in Engineering. Cr. 8vo. Pp. 96. 1921. University of London Press. 3s. 6d.

Hutton, W. S. Practical Engineer's Handbook. A Treatise on Engines and Boilers, Marine, Locomotive and Stationary. 7th edn. Med. 8vo. Pp. 576. 1911. Crosby Lockwood. 21s.

Jervis-Smith, F. J., and Boys, C. V. Dynamometers. Demy 8vo. Pp. 283. 1915. Constable. 14s.

Kennedy, Sir A. B. W. The Mechanics of Machinery. Cr. 8vo. Pp. 668. 1907. Macmillan. 8s. 6d.

Mechanical Engineering.

Lanchester, F. W. *Industrial Engineering. Its Present position and Post-war outlook.* Cr. 8vo. Pp. 61. 1917. Constable. 1s. 6d.

Lineham, W. J. *A Text-book of Mechanical Engineering. Part 1., Workshop Practice; Part 2., Theory and Examples.* 11th edn. 8vo. Pp. 1244. 1920. Chapman & Hall. 21s.

Liversedge, A. J. *Commercial Engineering.* Demy 8vo. Pp. 369. 1912. Emmott. 8s. 6d.

Low, D. A. *A Pocket-Book for Mechanical Engineers.* 8th imp. Fcap. 8vo. Pp. 748. 1919. Longmans. 9s.

McLaren, R. S. *Mechanical Engineering for Beginners.* 4th edn. Cr. 8vo. Pp. 316. 1920. Griffin. 6s.

Marks, E. C. R. *Mechanical Engineering Materials.* 2nd edn. Cr. 8vo. Pp. 98. 1906. Technical Pub. Co. 3s. 6d.

Pullen, W. W. F. *Engineering Tables and Data for the use of Students in Laboratories, &c.* 2nd edn. Demy 8vo. Pp. 96. 1913. Scientific Pub. Co. 1s. 6d.

Rankine, W. J. M. *A Manual of Machinery and Mill Work.* Revised by W. J. Millar. 7th edn. Cr. 8vo. Pp. 617. 1893. Griffin. 12s. 6d.

Robson, A. G. *Engineering Workshop Principles and Practice.* 2nd edn. Demy 8vo. Pp. 259. 1919. Emmott. 6s.

Sexton, A. H. *Chemistry of Materials of Engineering.* 3rd edn. Cr. 8vo. Pp. 337. 1909. Technical Pub. Co. 6s. 9d.

Spikes, W. H. *Foundations of Engineering.* Cr. 8vo. Pp. 272. 1919. Hodder & Stoughton. 4s. 6d.

Stanley, H. *Practical Science for Engineering Students.* Cr. 8vo. Pp. 174. 1913. Methuen. 5s.

Taylor, H. G. *Laboratory Engineering.* Cr. 8vo. Pp. 392. 1913. University of London Press. 7s. 6d.

ii. POWER TRANSMISSION: GEARING.

Bale, M. P. *Modern Shafting and Gearing, and the Economical Transmission of Power.* Cr. 8vo. Pp. 124. 1893. Wm. Rider. 2s. 6d.

Butler, E. *Transmission Gears: Mechanical, Electric, and Hydraulic, for Land and Marine Purposes.* Med. 8vo. Pp. 176. 1917. Griffin. 8s. 6d.

Dunkley, W. G. *Belts for Power Transmission.* Pott 8vo. Pp. 116. 1921. Pitman. 2s. 6d.

Hill, C. W. *The Design of Toothed Gears.* Med. 8vo. Pp. 64. 1918. Griffin. 3s. 6d.

Horner, J. G. *Toothed Gearing. A Practical Hand-book for Offices and Workshops.* 2nd edn. Cr. 8vo. Pp. 224. 1904. Crosby Lockwood. 7s. 6d.

Ingham, A. E. *Gearing: A Practical Treatise.* Demy 8vo. Pp. 198. 1914. Methuen. 7s. 6d.

Puppe, J. *Experimental Investigations on the Power Required to Drive Rolling Mills.* Translated from the German. 2nd edn. in preparation. Griffin.

Shaw, T. R. *The Driving of Machine Tools.* Cr. 8vo. Pp. 225. 1917. Scott, Greenwood. 5s.

Smith, T. A. *Power and its Transmission. A Practical Handbook for the Factory and Works Manager.* Fcap. 8vo. Pp. 76. 1910. Spon. 2s. 6d.

Snell, Sir J. F. C. *Power House Design.* 2nd edn. 8vo. 1921. Longmans. 42s.

White, G. T. *Toothed Gearing.* Cr. 8vo. Pp. 220. 1912. Scott, Greenwood. 4s. 6d.

Wildgoose, A., and Orr, A. J. (compiled by). *Wheel Gearing. Tables of Pitch-line Diameters of Wheels, Proportions and Strengths of Teeth, etc.* Fcap. 16mo. Pp. 184. 1921. Spon. 3s.

Woollaston, T. R. *Power Plant.* Demy 8vo. Pp. 117. 1919. Sherratt and Hughes. 5s.

Mechanical Engineering.

iii. COMPRESSED AIR POWER TRANSMISSION.

Daw, A. W., and Z. W. Compressed Air Power. A Treatise on the Development and Transmission of Power by Compressed Air. Demy 8vo. Pp. 399. 1920. Pitman. 21s.

Popplewell, W. C. Compressed Air. A Treatise on the Theory and Practice of Pneumatic Power Transmission. 2nd edn. Demy 8vo. Pp. 295. 1921. Scientific Pub. Co. 10s.

iv. LUBRICATION.

Archbutt, L., and Deeley, R. M. Lubrication and Lubricants. A Treatise on the Theory and Practice of Lubrication, and on the Nature, Properties and Testing of Lubricants. 4th (reprint of 3rd) edn. Large. 8vo. Pp. 635. (1920). 1921. Griffin. 30s.

Battle, J. R. A Practical Handbook of Industrial Oil Engineering, including the Lubricating Engineer's Handbook. 2 vols. Vol. 1. Lubrication and Industrial Oil. Large Cr. 8vo. Pp. 1,142. 1921. 42s. Vol. 2. Oil Fuels—in preparation. Griffin.

Cree, A. All About Oil for Engineers: a Practical Handbook. 2nd edn. 12mo. Pp. 277. 1919. Spon. 9s.

Pamely, C. The Mine Wagon and its Lubrication. Med. 8vo. Pp. 144. 1914. Crosby Lockwood. 7s. 6d.

v. LIFTING AND CONVEYING.

Broughton, H. H. The Electrical Handling of Materials: a Manual on the Design, Construction, and Application of Cranes, Conveyors, Hoists, and Elevators. 4 Vols. Demy 4to. Vol. 1. Electrical Equipment. 2nd edn. Pp. 216. 1920. 25s. Vols. 2. Structural; 3. Machinery; 4. Methods; in preparation. Benn Bros.

Hill, C. W. Electric Crane Construction. Med. 8vo. Pp. 333. 1911. Griffin. 30s.

Horner, J. G. An Elementary Treatise on Hoisting Machinery. Cranes, their construction and various types. Cr. 8vo. Pp. 264. 1903. Crosby Lockwood. 8s. 6d.

McCulloch, C., and Futers, T. C. Winding Engines and Winding Appliances: their Design and Economical Working. Demy 8vo. Pp. 460. 1912. Arnold. 21s.

Marks, E. C. R. Practical Notes on the Construction of Cranes and Lifting Machinery. 3rd edn. Cr. 8vo. Pp. 260. 1904. Technical Pub. Co. 4s. 9d.

Wallis-Taylor, A. J. Aerial or Wire-Rope Ways. Their Construction and Management. 2nd edn. Demy 8vo. Pp. 254. 1920. Crosby Lockwood. 12s. 6d.

Weisbach, J., and Herrmann, G. Mechanics of Hoisting Machinery: including Accumulators, Excavators, and Pile Drivers. 8vo. Pp. 342. 1907. Macmillan. 12s. 6d.

Wilda, H. Cranes and Hoists: Their Construction and Calculation. Cr. 8vo. Pp. 168. 1913. Scott, Greenwood. 4s. 6d.

Zimmer, G. F. The Mechanical Handling and Storing of Material. A Treatise on the handling and storing of Material such as Coal, Grain, Timber, etc., by Automatic or Semi-Automatic Machinery. Roy. 8vo. Pp. 766. 1916. Crosby Lockwood. 50s.

—Mechanical Handling of Material, and its National Importance During and After the War. Roy. 8vo. Pp. 135. 1917. Crosby Lockwood. 10s. 6d.

vi. FOUNDRY WORK.

Aughtie, H. Practical Pattern Making. A Treatise for Pattern Makers, Foundrymen, Apprentices, etc. 2nd edn. Demy 8vo. Pp. 176. 1901. Scientific Pub. Co. 4s.

Horner, J. G. The Principles of Pattern Making for Apprentices and Students in Technical Colleges. 5th edn. Cr. 8vo. Pp. 180. 1892. Pitman. 4s.

Mechanical Engineering.

- Horner, J. G.** *Practical Pattern Making*. 4th edn. Large Cr. 8vo. Pp. 420. 1912. Crosby Lockwood. 8s. 6d.
- Primrose, H. S., and J. S. G.** *Gun-Metal and Brass Founding (under Scientific Control)*. Cr. 8vo. Pp. 287. 1921. Louis Cassier. 10s.
- Shaw, B., and Edgar, J.** *Pattern-making: a Practical Treatise describing Pattern-making Methods and Appliances*. Fcap. 8vo. Pp. 120. 1921. Pitman. 2s. 6d.
- Treiber, T.** *Foundry Machinery*. Translated from the German, revised and adapted to British practice. Cr. 8vo. Pp. 148. 1913. Scott, Greenwood. 4s. 6d.
- vii. MACHINE TOOLS.**
- Barrett, E. G.** *Screw Cutting in the Lathe*. Cr. 8vo. Pp. 44. 1912. Technical Pub. Co. 2s.
- Bentley, W.** *Machine Shop Companion: Comprising Practical Notes, Rules and Tables for every-day Workshop Use*. 8th edn. Fcap. 8vo. Pp. 130. 1920. Chapman & Hall. 1s. 6d.
- Burley, G. W.** *Lathes: Their Construction and Operation*. Cr. 8vo. Pp. 244. 1915. Scott, Greenwood. 4s. 6d.
- *Machine and Fitting Shop Practice*. Cr. 8vo. Vol. 1., Measurements and Gauging, Setting-out, Vice-Work, Chipping and Filing. Pp. 221. 1918. Vol. 2., Planing, Drilling, Lathe Work and Grinding. 1919. Scott, Greenwood. 5s. each.
- *The Testing of Machine Tools*. Cr. 8vo. Pp. 240. 1915. Scott, Greenwood. 5s.
- Camm, F. J., and Others.** *Screw Cutting*. Demy 8vo. Pp. 270. 1920. Cassell. 6s.
- Darbyshire, H.** *Precision Grinding. A Practical Book on the Use of Grinding Machinery for Machine Men*. Demy 8vo. Pp. 170. 1907. Constable. 6s. 6d.
- De Vries, D.** *Milling Machines and Milling Practice*. 8vo. Pp. 464. 1916. Spon. 10s. 6d.
- *The Calculation of Change-Wheels for Screw-Cutting on Lathes*. 8vo. Pp. 83. 1914. Spon. 5s.
- Fremont, C.** *Files and Filing*. Translated under the supervision of G. Taylor, from the French. Quarto. Pp. 160. 1920. Pitman. 21s.
- Gates, P.** *Tool and Machine Setting for Milling, Drilling, Tapping, Boring, Grinding and Press Work*. Fcap. 8vo. Pp. 103. 1921. Pitman. 2s. 6d.
- Griffiths, E. A.** *Engineering Instruments and Meters*. Roy. 8vo. Pp. 384. 1920. Routledge. 31s. 6d.
- Grimshaw, R.** *Modern Workshop Hints*. Cr. 8vo. Pp. 443. 1902. Sampson Low. 10s. 6d.
- Guest, J. J.** *Grinding Machinery*. Demy 8vo. Pp. 444. 1915. E. Arnold. 16s.
- Haddow, A. N.** *The Design of Drill Jigs. A Practical Manual*. Demy 8vo. Pp. 96. 1917. Emmott. 2s. 6d.
- Haenig, A.** *Emery and the Emery Industry*. Translated from the German. Cr. 8vo. Pp. 104. 1912. Scott, Greenwood. 6s.
- Hasluck, P. N.** *Lathe Work. A Practical Treatise on the Tools, Appliances, and Processes employed in the Art of Turning*. 8th edn. Cr. 8vo. Pp. 224. 1918. Crosby Lockwood. 6s.
- *Screw Threads, and Methods of Producing Them*. 9th edn. Pocket size. Pp. 112. 1918. Crosby Lockwood. 2s.
- Hodgson, R. B.** *Emery Grinding Machinery: A Text-book of Workshop Practice in General Tool-Grinding, and the Design, Construction, and Application of the Machines Employed*. Cr. 8vo. Pp. 192. 1903. Griffin. 6s.

Mechanical Engineering.

- Horner, J. G.** *Practical Metal Turning: a Handbook for Engineers, Technical Students and Amateurs.* 3rd edn. Large Cr. 8vo. Pp. 432. 1919. Crosby Lockwood. 12s. 6d.
- *Metal Turning. A Practical Handbook.* 3rd edn. Cr. 8vo. Pp. 168. 1918. Pitman. 4s.
- *Modern Milling Machines: their Design, Construction, and Working.* Med. 8vo. Pp. 304. 1906. Crosby Lockwood. 14s.
- *Tools for Engineers and Workmen, including Modern Instruments of Measurement.* Demy 8vo. Pp. 352. 1905. Crosby Lockwood. 10s. 6d.
- *Turret Lathe Practice.* Demy 8vo. Pp. 284. 1921. Emmott. 12s. 6d.
- *The Principles of Fitting.* 4th edn. Cr. 8vo. Pp. 425. 1909. Pitman. 7s. 6d.
- How to Lay-Out Turret Lathe Tools.** A Handbook for those who Design Tools for Use on Turret and Capstan Lathes and Automatic Turning Machines. 2nd edn. Demy 8vo. Pp. 175. 1919. (Alfred Herbert). Pitman. 6s.
- Jackson, A.** *Home Mechanic's Workshop Companion.* Cr. 8vo. Pp. 222. 1920. Frowde & Hodder. 6s.
- Lindsay, Lord.** *Tables for Engineers and Machinists, giving the values of the different trains of wheels required to produce Screws of any Pitch. Calculated for pinion wheel of 15 teeth.* 2nd edn. Oblong 8vo. Pp. 20. 1920. Spon. 1s. 6d.
- Martin, W. A.** *Screw Cutting Tables for the use of Mechanical Engineers.* 7th edn. Olf. Roy. 8vo. Pp. 16. Spon. 1s. 6d.
- Parr, A.** *Machine Tools and Workshop Practice for Engineering Students and Apprentices.* 8vo. Pp. 468. 1917. Longmans. 16s.
- *Principles of Setting-out: Securing and Tooling Operations.* 8vo. Pp. 300. 1913. Longmans. 9s.
- Price, W.** *Turner's Handbook on Screw Cutting, Coning, etc., with Tables, Examples, Gauges, and Formulæ.* New imp. Fcap. 8vo. Pp. 56. Spon. 1s.
- Pull, E.** *Modern Milling. A Practical Manual on Milling Machines, Milling Accessories, and Milling Operations.* Demy 8vo. Pp. 207. 1917. Pitman. 9s.
- *Screw Cutting for Engineers.* 2nd edn. Cr. 8vo. Pp. 91. 1918. Crosby Lockwood. 2s. 6d.
- *Modern Workshop Practice for Engineers, Apprentices, and Students.* 5th edn. Cr. 8vo. Pp. 389. 1918. Crosby Lockwood. 9s.
- *Engineer's Measuring Tools: their Construction and Use.* Cr. 8vo. Pp. 150. 1918. Crosby Lockwood. 4s. 6d.
- *The Engineering Workshop Handbook.* Roy. 16mo. Pp. 162. 1919. Crosby Lockwood. 3s.
- *Engineering Workshop Exercises.* 2nd edn. Cr. 8vo. Pp. 88. 1914. Pitman. 3s.
- Robinson, H. C.** *An Introduction to Eccentric Spiral Turning, or New Uses for Old Chucks.* 8vo. Pp. 48. 1906. Spon. 5s.
- Robson, A. G.** *Engineering Machine Tools and Processes.* 8vo. Pp. 317. 1919. Longmans. 12s. 6d.
- Shaw, T. R.** *Precision Grinding Machines.* Demy 8vo. Pp. 212. 1917. Scott, Greenwood. 12s. 6d.
- *Lathes, Screw Machines, Boring and Turning Mills and their Accessories.* New edition in preparation. Scientific Pub. Co.
- *Machine Tools for Planing, Shaping, Slotting, Drilling, Boring, Milling, Wheel Cutting, etc.* Demy 8vo. Pp. 692. 1903. Scientific Pub. Co. 15s.
- Shelley, C. P. B.** *Workshop Appliances.* 11th edn. Cr. 8vo. Pp. 390. 1919. Longmans. 6s. 6d.
- Thompson, H.** *Modern Engineering Workshop Practice. A Text-book for the use of Engineering Students, Apprentices, and Practical Engineers.* Cr. 8vo. Pp. 328. 1919. Griffin. 9s.

Mechanical Engineering.

viii. WOOD WORKING MACHINERY.

- Bale, M. P.** Saw Mills. Their Arrangement and Management. 5th edn. Cr. 8vo. Pp. 395. 1919. Crosby Lockwood. 10s. 6d.
- Woodworking Machinery. 4th edn. Large Cr. 8vo. Pp. 440. 1919. Crosby Lockwood. 10s. 6d.
- Blackmur, W. J.** Saw Mill Work and Practice. 2nd edn. Cr. 8vo. Pp. 167. N.D. Wm. Rider. 3s. 6d.
- Durham, H.W.** Saws: their Care and Treatment. Cr. 8vo. Pp. 272. N.D. Wm. Rider. 6s.
- Groom, T. R.** Joiners' Machines and How to Work Them. Cr. 8vo. Pp. 106. N.D. Wm. Rider. 2s.

ix. WELDING, ETC.

- Amedeo, M. R.** Oxy-Acetylene Welding of Copper, Brasses, and Bronzes. Translated with Additions by D. Richardson. 8vo. Pp. 80. 1918. Raggett. 3s. 6d.
- Granjon, R., and Rosenberg, P.** A Practical Manual of Autogenous Welding (Oxy-Acetylene). With a Chapter on the Cutting of Metals with the Blow Pipe. Translated by D. Richardson. 9th edn. Demy 8vo. Pp. 274. 1920. Griffin. 6s.
- Groth, L. A.** Welding and Cutting of Metals by the Aid of Compressed Gases and Electricity. Ex. Cr. 8vo. Pp. 297. 1913. Constable. 8s. 6d.
- Thatcher, E.** Simple Soldering, both Hard and Soft. Cr. 8vo. Pp. 76. 1914. Spon. 2s. 6d.
- Yates, R. F.** Home Soldering and Brazing. Cr. 8vo. Pp. 122. 1920. Frowde and Hodder. 4s. 6d.

x. SHEET METAL WORK.

- Atkins, E. A.** Practical Sheet and Plate Metal Work. 2nd edn. Cr. 8vo. Pp. 534. 1912. Pitman. 10s.

Barrett, E. G. Principles and Processes of Metal Plate Work. Cr. 8vo. Pp. 132. 1914. Crosby Lockwood. 3s.

Georgi, F., and Schubert, A. Sheet-Metal Working. Translated from the German. Demy 8vo. Pp. 151. 1914. Scott, Greenwood. 8s. 6d.

Hodgson, R. B. Machine and Tools employed in the Working of Sheet Metals. Cr. 8vo. Pp. 311. 1903. Technical Pub. Co. 6s.

Miller, J. S. Metal Work: Teachers' Handbook of Manual Training. 2nd imp. Demy 8vo. Pp. 147. 1903. Pitman. 4s.

Millis, C. T. Metal Plate Work, its Patterns and their Geometry: also Notes on Metals and Rules in Mensuration for the use of Tin, Iron, and Zinc-Plate Workers, Coppersmiths, Boiler Makers, etc. 4th edn. Cr. 8vo. Pp. 456. 1919. Spon. 12s. 6d.

Newton, T. Pattern Drawing for Sheet-Metal Workers. Demy 8vo. Pp. 270. 1920. Cassell. 6s.

Pearson, J. C. An Introduction to Metal Working. Fcap. 8vo. Pp. 110. 1904. Murray. 2s. 6d.

Warn, R. H., and Horner, J. G. The Sheet-Metal Worker's Instructor. 4th edn. Cr. 8vo. Pp. 272. 1916. Crosby Lockwood. 8s. 6d.

xi. METALS.

a. Forging.

Cathcart, W. H. The Value of Science in the Smithy and Forge. Edited by J. E. Stead. 4th edn. Cr. 8vo. Pp. 177. 1920. Griffin. 6s.

Horner, J. G. Smithing and Forging. Demy 8vo. Pp. 230. 1921. Emmott. 8s. 6d.

Moore, T. The Practical Handbook of Smithing and Forging. Engineers' and General Smiths' Work. New imp. Cr. 8vo. Pp. 248. (1919) 1921. Spon. 7s. 6d.

Mechanical Engineering.

Saunders, B. Forging, Stamping and General Smithing. 8vo. Pp. 437. 1912. Spon. 28s.

Watson, J. Tables for the Use of Blacksmiths and Forgers. 16mo. Pp. 96. 1919. Longmans. 4s.

b. Coating.

Brown, W. N. The Principles and Practice of Dipping, Burnishing, Lacquering and Bronzing Brass Ware. Revised edn. Cr. 8vo. Pp. 42. 1912. Scott, Greenwood. 4s.

—The Art of Enamelling on Metal. 2nd edn. Cr. 8vo. Pp. 55. 1914. Scott, Greenwood. 4s. 6d.

—A Handbook on Japanning. For Ironware, Tinware, Wood, etc. 2nd edn. Cr. 8vo. Pp. 70. 1913. Scott, Greenwood. 4s. 6d.

Grünwald, J. The Theory and Practice of Enamelling on Iron and Steel. With Historical Notes on the Use of Enamel. Translated by H. H. Hodgson. Med. 8vo. Pp. 178. Reprint. 1919. Griffin. 7s. 6d.

—The Raw Materials of the Enamel Industry and their Chemical Technology. Translated by H. H. Hodgson. Med. 8vo. Pp. 236. 1914. Griffin. 10s. 6d.

—The Technology of Iron Enamelling and Tinning. Translated by H. H. Hodgson. Med. 8vo. Pp. 148. 1912. Griffin. 7s. 6d.

Hiorns, A. H. Metal Colouring and Bronzing. Gl. 8vo. Pp. 358. 1911. Macmillan. 6s.

c. Gold and Silversmiths' Work.

Davidson, P. W. Educational Metalcraft. A Practical Treatise on Repoussé, Fine Chasing, Silver-smithing, Jewellery, and Enamelling. Post 4to. Pp. 248. 1913. Longmans. 6s.

Horth, A. C. Repoussé Metalwork. A Scheme of Sheet Metalwork for Schools and Amateurs. Cr. 8vo. Pp. 115. 1905. Methuen. 3s. 6d.

Jackson, F. G. Metal Work: Chasing and Repoussé for Home Art Workers. Demy 8vo. Pp. 64. 1903. Chapman and Hall. 4s. 6d.

Leland, C. G. Metal Work. Including Repoussé, Bent Iron, or Stripwork; Flat and Moulded Sheet Metal Work; Nail or Knob, Wire, Easy Silver Ornament and Chasing Work. 2nd edn. Fcap. 4to. Pp. 111. Pitman. 5s.

Maryon, H. Metal Work and Enamelling. A Practical Treatise on Gold and Silversmiths' Work and their Allied Crafts. Demy 8vo. Pp. 344. 1912. Chapman and Hall. 9s. 6d.

Randau, P. Enamels and Enamelling. For Enamel Makers, Workers in Gold and Silver, and Manufacturers of Objects of Art. 2nd edn. Demy 8vo. Pp. 200. 1912. Scott, Greenwood. 12s. 6d.

Wigley, T. B., and Stansbie, J. H. The Art of the Goldsmith and Jeweller. A Manual on the Manipulation of Gold, and the Manufacture of Personal Ornaments. 2nd edn. Demy 8vo. Pp. 276. 1911. Griffin. 9s.

Wilson, H. Silverwork and Jewellery. 2nd edn. Cr. 8vo. Pp. 500. 1912. Pitman. 8s. 6d.

xii. HOROLOGY.

Britten, F. J. The Watch and Clock Makers' Handbook, Dictionary and Guide. 12th edn. Demy 8vo. Pp. 346. 1920. Spon. 12s. 6d.

Cunynghame, H. H. Time and Clocks. A description of Ancient and Modern Methods of Measuring Time. Cr. 8vo. Pp. 200. 1906. Constable. 3s. 6d.

Garrard, F. J. Clock Repairing and Making. The Tools, Materials and Methods used in Cleaning and Repairing all kinds of Timepieces. Cr. 8vo. Pp. 176. 1918. Crosby Lockwood. 6s.

—A Practical Handbook on Watch Repairing, Cleaning, and Adjusting. 4th edn. Cr. 8vo. Pp. 224. 1919. Crosby Lockwood. 6s.

Mechanical Engineering.

xiii. MOTOR CAR ENGINEERING.

Adams, W. P. Motor Car Mechanism and Management. Cr. 8vo. Part 1. The Petrol Car. 3rd edn. Pp. 266. 1912. Part 2. Electrical and Petrol Electrical Motor Cars. Pp. 212. 1908. Griffin. 6s. each.

Autocar Handbook, The. A Guide to the Motor Car. 10th edn. Demy 8vo. Pp. 283. 1920. Iliffe. 3s. 6d.

Automobile Engineer Year Book, 1920. Roy. 8vo. Pp. 217. May, 1920. Iliffe. 6s.

Berriman, A. E. Motoring. An Introduction to the Car and the Art of Driving It. Demy 8vo. Pp. 332. 1914. Methuen. 12s. 6d.

Bickford, J. S. V. Faults and How to Find Them (Motor Car Troubles). 5th edn. Cr. 8vo. Pp. 176. 1919. Iliffe. 3s. 6d.

Bramley-Moore, S. Motors in a Nutshell. Cr. 8vo. Pp. 160. 1919. Spon. 2s.

Brewer, R. W. A. Motor Car Construction. A Practical Manual, with notes on Wind resistance and Body design. Demy 8vo. Pp. 253. 1919. Crosby Lockwood. 9s.

—Carburation in Theory and Practice for Automobile Engineers. 2nd edn. Demy 8vo. Pp. 278. 1918. Crosby Lockwood. 12s. 6d.

Butler, E. The Vaporizing of Paraffin for High-Speed Motors (Electric Ignition Type). Cr. 8vo. Pp. 128. 1916. Griffin. 4s.

Butler, H. J. Motor Bodies and Chassis: a Textbook dealing with the complete car, for the use of Owners, Students, and others. Demy 8vo. Pp. 352. 1912. Harper. 7s. 6d.

"Candidus." Small Car Handbook: all About Economic Motoring. 2nd edn. Cr. 8vo. Pp. 225. 1919. Iliffe. 2s. 6d.

Clarke, A. G. Text-Book of Motor Car Engineering. 2nd edn. 2 Vols. Demy 8vo. 1919. Vol. 1. Construction. Pp. 456. Vol. 2. Design. Pp. 405. Constable. 10s. 6d. each.

Complete Hints and Tips for Automobilists. 7th edn. Cr. 8vo. Pp. 456. 1919. Iliffe. 5s.

Davies, B. H. Motor Driving Made Easy. Cr. 8vo. Pp. 168. 1919. Iliffe. 3s.

Dommett, W. E. Motor Car Mechanism. Cr. 8vo. Pp. 200. 1913. Scott, Greenwood. 4s. 6d.

Gunn, J. The Practical Design of Motor Cars. Demy 8vo. Pp. 264. 1910. Arnold. 12s. 6d.

Havilland, G. de. The Woman's Motor Manual. Motor Driving and Management of Motor Vehicles for Women drivers. Cr. 8vo. Pp. 181. 1919. Temple Press. 3s.

Holden-Stone, G. de. The Automobile Industry. Cr. 8vo. Pp. 241. 1904. Methuen. 5s.

Jones, L. M. M. Steam Road Vehicles. 2nd. edn. 8vo. Pp. 242. 1921. Iliffe. 5s.

Knight, J. H. A Catechism of the Motor Car. 6th edn. Cr. 8vo. Pp. 111. 1919. Crosby Lockwood. 3s. 6d.

McMillan, D. The Motor Car. New edn. Cr. 8vo. Pp. 166. 1920. Longmans. 4s. 6d.

Mantell, L. A Manual of Motor Mechanics and High Efficiency Tuning. 4th edn. Cr. 8vo. Pp. 233. 1919. Temple Press. 3s. 6d.

More, C. G., and Higgs, G. G. The Motorist's Handbook, embracing 250 Practical Points on Motoring, being a Series of Test Questions and Answers on Motoring Matters. 7th edn. Pocket size. Pp. 92. 1920. Larby. 1s. 9d.

The Motor Manual, compiled by the Staff of "The Motor." 23rd edn. Demy 8vo. Pp. 238. 1920. Temple Press. 3s. 6d.

Mechanical Engineering.

Motor Repair Work for the Amateur Mechanic and Owner Driver. 3rd edn. Cr. 8vo. Pp. 130. 1919. Temple Press. 1s. 9d.

Nicholson, R. T. The Book of the Ford. How to Get the Best out of a Ford Car. 5th edn. Cr. 8vo. Pp. 255. 1920. Temple Press. 3s.

—The Book of the Ford Van. Cr. 8vo. Pp. 119. 1920. Temple Press. 3s.

Northcliffe, Viscount, and others. Motors and Motor Driving. 4th edn. Cr. 8vo. Pp. 548. 1906. Longmans. 10s. 6d.

Phillimore, J. Motor Road Transport for Commercial Purposes (Liquid Fuel, Steam, Electricity). Demy 8vo. Pp. 226. 1920. Pitman. 12s. 6d.

Sherrin, G. C. The Montagu Motor Book. Edited by Lord Montagu. Demy 8vo. Pp. 292. 1920. E. J. Burrow. 12s. 6d.

Spooner, H. J. Motors and Motor-ing. 13th edn. Cr. 8vo. Pp. 331. 1919. Jack. 3s. 6d.

Steam Wagon Manual, The. Maintenance, Overhaul, Garage and Running Repairs. Cr. 8vo. Pp. 104. 1918. Temple Press. 2s.

Strickland, F. A Manual of Petrol Motors and Motor Cars. The Design, Construction and Working. 2nd edn. Large 8vo. Pp. 388. 1914. Griffin. 21s.

Walford, E. W. The Maintenance and Running Repairs of Motor Cars. 3rd edn. Cr. 8vo. Pp. 282. 1920. Iliffe. 5s.

Watson, G. W., and Rogers, F. H. The Motor Mechanic's Handbook: A Manual for Motor Vehicle Owners and Mechanics. New edn. Cr. 8vo. Pp. 278. 1920. Cassell. 3s. 6d.

White, T. H. Petrol Motors and Motor Cars. Cr. 8vo. Pp. 212. 1919. Longmans. 6s. 6d.

Whittaker, W. E. de B., and Barron, P. A. (edited by). Automobiles of the World, 1921. An Illustrated Encyclopædia of the Motor Industry. Large 4to. Pp. 500. 1921. "Aeroplane" and General Pub. Co. 42s.

Wimperis, H. E. The Principles of the Application of Power to Road Transport. Cr. 8vo. Pp. 144. 1913. Constable. 5s.

Wyatt, H. The Motor Industry: its Growth, its Methods, its Prospects and its Products. Cr. 8vo. Pp. 140. 1917. Pitman. 3s.

Young, F., and Aston, W. G. The Complete Motorist. 8th edn. Demy 8vo. Pp. 233. 1915. Methuen. 10s. 6d.

xiv. MOTOR CYCLES.

Henry, P. Cycle Building and Repairing, including Enamelling, Repair of Tyres and Wheel Building. Cr. 8vo. Pp. 96. 1913. Spon. 2s. 6d.

Hints and Tips for Motor Cyclists. 7th edn. Pott 8vo. 1920. Iliffe. 2s.

Motor Cycles and How to Manage Them. 20th edn. Cr. 8vo. Pp. 104. 1920. Iliffe. 2s. 6d.

Motor Cycling Manual. 5th edn. Cr. 8vo. Pp. 287. 1920. Temple Press. 2s. 6d.

Shepherd, E. C. M. Motor Cycle Overhauling. A Complete Guide to Overhauling, Repairing and Adjusting a Motor Cycle. Cr. 8vo. Pp. 96. 1920. Crosby Lockwood. 2s. 6d.

Tracing Motor Cycle Troubles. 4th edn. Cr. 8vo. 1919. Iliffe. 2s.

Two-Stroke Motor Cycles. By the Staff of the "Motor Cycle." Cr. 8vo. Pp. 191. 1921. Iliffe. 3s.

Wyatt, H. (edited by). The Motor Cyclist's A.B.C. Cr. 8vo. Pp. 164. 1920. Newnes. 2s.

Mechanical Engineering.

xv. HEAT ENGINES AND STEAM ENGINES: DESIGN, CONSTRUCTION, TESTING, etc.

Anderson, Sir W. On the Conversion of Heat into Work. Cr. 8vo. Pp. 265. 1901. Pitman. 6s.

Boulvin, M. J. The Entropy Diagram and Its Applications. Translated from the French by B. Doukin. 8vo. Pp. 82. 1914. Spon. 5s.

Callendar, H. L. The Callendar Steam Tables. Including the Callendar Steam Diagram. Demy 8vo. Pp. 40. 1915. Arnold. 3s. 6d.

Case, J. A Synopsis of the Elementary Theory of Heat and Heat Engines. Demy 8vo. Pp. 66. 1913. Heffer. 3s. 6d.

Crawford, W. J. Calculations on the Entropy-Temperature Chart. Cr. 8vo. Pp. 82. 1912. Griffin. 3s.

Dalby, W. E. The Balancing of Engines. Demy 8vo. 3rd edn. Pp. 283. 1920. Arnold. 12s. 6d.

— Steam Power. 2nd edn. 8vo. Pp. 776. 1920. Arnold. 35s.

Duncan, J. Steam and Other Engines. Gl. 8vo. Pp. 482. 1920. Macmillan. 6s.

Ewing, Sir J. A. The Steam Engine and Other Heat-Engines. 3rd edn. Demy 8vo. Pp. 604. 1914. Cambridge University Press. 27s. 6d.

Garratt, H. A. Heat Engines. Cr. 8vo. Pp. 344. 1912. Arnold. 7s. 6d.

Haeder, H. A Handbook on the Steam Engine, with Special Reference to Small and Medium-sized Engines. 4th edn. Cr. 8vo. Pp. 552. 1914. Crosby Lockwood. 10s. 6d.

Hall, H. R. Governors and Governing Mechanism. 2nd edn. Cr. 8vo. Pp. 177. 1907. Technical Pub. Co. 5s. 6d.

Hayward, J. W. Heat Engines: First Stage. 5th imp. Cr. 8vo. Pp. 280. 1918. University Tutorial Press. 3s. 6d.

Hobbs, L. M. The Thermo-Dynamic Principles of Engine Design. Large Cr. 8vo. Pp. 151. 1907. Griffin. 5s.

Hurst, C. Hints on Steam Engine Design and Construction. 2nd edn. 8vo. Pp. 68. 1915. Griffin. 2s.

Inchley, W. The Theory of Heat Engines. 2nd edn. Revised by A. Morley. 8vo. Pp. 504. 1920. Longmans. 12s. 6d.

Jamieson, A. Elementary Manual of Heat Engines: Steam, Gas, and Oil. 17th edn. Revised by E. S. Andrews. Cr. 8vo. Pp. 390. 1920. Griffin. 5s.

— A Text-Book of Heat and Heat Engines. (18th edn. of Text-Book on Steam and Steam Engines). Vol. 1. Revised by E. S. Andrews. Cr. 8vo. Pp. 567. 1919. 8s. 6d. Vol. 2. in preparation. Griffin.

King, H. E. Steam Engine Design. Cr. 8vo. Pp. 356. 1913. Technical Pub. Co. 8s.

Langmaid, J., and Gaisford, H. Elementary Lessons in Steam Machinery and the Marine Steam Engine. 8vo. Pp. 308. 1901. Macmillan. 7s. 6d.

Low, D. A. Heat Engines, embracing the Theory, Construction, and Performance of Steam Boilers, Reciprocating Steam Engines, Steam Turbines, and Internal Combustion Engines. A Text-book for Engineering Students. Demy 8vo. Pp. 600. 1920. Longmans. 17s. 6d.

Marks, L. S., and Davis, H. N. Tables and Diagrams of the Thermal Properties of Saturated and Superheated Steam. 9th imp. Roy. 8vo. Pp. 108. 1920. Longmans. 9s.

Peel, T. Examples in Heat and Heat Engines. Demy 8vo. Pp. 108. 1919. Cambridge University Press. 5s.

Mechanical Engineering.

Perry, J. The Steam Engine, and Gas and Oil Engines. 8th imp. 8vo. Pp. 680. 1920. Macmillan. 10s.

Porter, C. T. A Treatise on the Richards Steam Engine Indicator, and the Development and Application of Force in the Steam Engine. 6th edn. 8vo. Pp. 285. 1902. Spon. 9s.

Pratt, H. K. A Manual of the High-Speed Steam Engine. Demy 8vo. Pp. 270. 1914. Constable. 6s.

Pullen, W. W. F. Steam and Internal Combustion Engineering. 7th edn. Cr. 8vo. Pp. 190. Scientific Pub. Co. 4s.

—Testing of Engines and Boilers. A Treatise on the Construction and Use of the Instruments and Methods employed in the Testing of Prime Movers in the Laboratory and Workshop. 2nd edn. Demy 8vo. Pp. 746. 1911. Scientific Pub. Co. 15s.

—Indicator Diagrams. A Treatise on the use of the Indicator and its application to the Steam Engine. Demy 8vo. Pp. 242. 1901. Scientific Pub. Co. 6s.

Rankine, W. J. M. A Manual of the Steam Engine and other Prime Movers. Revised by W. J. Millar. With a Section on Gas, Oil, and Air Engines by B. Donkin. 17th edn. Cr. 8vo. 1908. Griffin. 12s. 6d.

Richardson, J. The Modern Steam Engine. Theory, Design, Construction, Use. Demy 8vo. Pp. 396. 1908. Constable. 7s. 6d.

Ripper, W. Steam Engine Theory and Practice. 7th edn. Demy 8vo. Pp. 514. 1914. Longmans. 12s. 6d.

—Heat Engines. Cr. 8vo. Pp. 362. 1919. Longmans. 5s.

Royds, R. The Testing of Motive Power Engines; including Steam Engines and Turbines, Locomotives, Boilers, Condensers, Internal Combustion Engines, Gas Producers, Refrigerators, Air Compressors, Fans, Pumps, etc. 2nd edn. Demy 8vo. Pp. 404. 1920. Longmans. 21s.

Sankey, H. R. The Energy Chart. Practical Applications to Reciprocating Steam Engines. 8vo. Pp. 170. 1907. Spon. 7s. 6d.

Smith, C. A. M., and Warren, A. G. The New Steam Tables. Calculated from H. L. Callendar's Researches. Demy 8vo. Pp. 114. 1912. Constable. 4s. 6d.

Smith, R. H. The Economic and Commercial Theory of Heat Power-Plants. Roy. 8vo. Pp. 315. 1905. Constable. 24s.

Swinburne, J. Entropy; or Thermodynamics from an Engineer's Standpoint, and the Reversibility of Thermodynamics. Cr. 8vo. Pp. 147. 1904. Constable. 5s.

Trinks, W. Governors and the Governing of Prime Movers. 8vo. Pp. 247. 1920. Constable. 22s. 6d.

xvi. REFRIGERATION.

Ewing, Sir J. A. The Mechanical Production of Cold. 2nd edn. Demy 8vo. Pp. 214. 1921. Cambridge University Press. 25s.

Springett, B. H. Cold Storage and Ice Making. An Elementary Handbook. Cr. 8vo. Pp. 132. 1921. Pitman. 3s.

Wallis-Taylor, A. J. The Pocket Book of Refrigeration and Ice-making. 7th edn. Cr. 8vo. Pp. 223. 1919. Crosby Lockwood. 5s.

—Refrigeration, Cold Storage, and Ice-making. Containing the 3rd edn. of "Refrigerating and Ice-making Machinery." 6th edn. Med. 8vo. Pp. 650. 1920. Crosby Lockwood. 15s.

xvii. STATIONARY AND PORTABLE STEAM ENGINES.

Fowler, W. H. Stationary Steam Engines. Illustrated with numerous examples from actual practice. Cr. 4to. Pp. 306. 1908. Scientific Pub. Co. 12s. 6d.

Mechanical Engineering.

Wansbrough, W. D. Portable Steam Engine: its Construction and Management. Demy 8vo. Pp. 179. 1912. Crosby Lockwood. 6s.

xviii. LOCOMOTIVE ENGINEERING.

Ahrons, E. L. The Steam Railway Locomotive: Explaining the Component Parts and Method of Working of Modern Steam Railway Locomotives. Fcap. 8vo. Pp. 124. 1920. Pitman. 2s. 6d.

—Steam Locomotive Construction and Maintenance. Fcap. 8vo. Pp. 144. 1921. Pitman. 2s. 6d.

—The Development of British Locomotive Design. Cr. 4to. Pp. 229. 1915. Locomotive Pub. Co. 6s.

Allen, C. E. The Modern Locomotive. Roy. 16mo. Pp. 149. 1911. Cambridge University Press. 2s. 6d.

A Loco Clerk. Locomotive Office Work. Cr. 8vo. Pp. 60. 1913. Locomotive Pub. Co. 3s. 6d.

Anon. Locomotive Shop Notes. Cr. 8vo. Pp. 92. 1914. Locomotive Pub. Co. 3s. 6d.

A. R. B. (edited by). The Locomotive Handbook of Useful Memoranda and Data. Cr. 8vo. Pp. 99. 1913. Locomotive Pub. Co. 1s. 6d.

—Locomotive Engineers' Pocket Book. Pocket size. Pp. 290. 1920. Locomotive Pub. Co. 3s. 6d.

—The Locomotive of To-Day. Demy 8vo. Pp. 200. 1920. Locomotive Pub. Co. 3s. 6d.

Booth, W. H. Superheat, Superheating, and Their Control. Demy 8vo. Pp. 166. 1907. Constable. 6s. 6d.

Gairns, J. F. Locomotive Compounding and Superheating. Large 8vo. Pp. 210. 1907. Griffin. 10s. 6d.

—Superheating on Locomotives. 2nd edn. Cr. 8vo. Pp. 120. 1917. Locomotive Pub. Co. 3s. 6d.

Garbe, R. The Application of Highly Superheated Steam to Locomotives. Translated from the German. Med. 8vo. Pp. 70. 1908. Crosby Lockwood. 8s. 6d.

H. D. F. Locomotive Running Shed Notes. Cr. 8vo. Pp. 98. 1916. Locomotive Pub. Co. 2s. 6d.

Hodgson, J. T., and Williams, J. Locomotive Management from Cleaning to Driving. 4th edn. 8vo. Pp. 454. 1920. Transport, Ltd. 7s. 6d.

Inspector, The. Locomotive Injectors. Cr. 8vo. Pp. 58. 1915. Locomotive Pub. Co. 3s. 6d.

Pendred, V. The Railway Locomotive: What it is, and Why It is What it is. Ex. Cr. 8vo. Pp. 310. 1908. Constable. 7s. 6d.

Pettigrew, W. F. A Manual of Locomotive Engineering. 4th edn. in preparation. Griffin.

Sauvage, E. Superheating on Continental Locomotives. Cr. 8vo. Pp. 68. 1911. University of London Press. 5s.

Stretton, C. E. The Locomotive Engine and its Development. 6th edn. Cr. 8vo. Pp. 270. 1903. Crosby Lockwood. 5s.

S. Y. K. Notes on the Vacuum Brake. Cr. 8vo. Pp. 93. 1914. Locomotive Publishing Co. 1s. 6d.

Taylor, A. T. Modern British Locomotives. 2nd edn. Oblong 8vo. Pp. 130. 1914. Spon. 6s.

Wolff, C. E. Locomotive Practice. A Treatise on the Design of Steam Locomotives. Demy 8vo. Pp. 280. 1903. Scientific Pub. Co. 10s. 6d.

xix. VALVES AND VALVE GEARING.

Dalby, W. E. Valves and Valve Gear Mechanisms. 2nd imp. Roy. 8vo. Pp. 366. 1919. E. Arnold. 24s.

Hurst, C. Valves and Valve-Gearing: A Practical Text-book for the use of Engineers, Draughtsmen, and Students. 8th edn. Large 8vo. Pp. 350. 1919. Griffin. 12s. 6d.

Mechanical Engineering.

- Thorn, W. H.** Guide to the Use of the Slide Valve. Cr. 8vo. 1913. T. Reed and Co. 4s.
- Slide Valve for Engineers. 2nd edn. Demy 8vo. Pp. 150. 1921. James Brown. 7s. 6d.
- Wansbrough, W. D.** Proportions and Movement of Slide Valves. Cr. 8vo. Pp. 160. 1903. Technical Pub. Co. 6s.
- Youngson, P.** Slide Valves and Valve Gearing. 3rd ed. Cr. 4to. Pp. 208. 1919. Jas. Munro. 15s.
- xx. STEAM BOILERS: CONSTRUCTION AND MANAGEMENT.**
- Bale, M. P.** A Handbook for Steam Users. Being Rules for Engine Drivers and Boiler Attendants. New edn. Fcap. 8vo. Pp. 144. 1918. Longmans. 4s. 6d.
- Batey, J.** Steam Boilers and Combustion. Cr. 8vo. Pp. 220. 1915. Scott, Greenwood. 5s.
- Bowden-Smith, E. C.** Oil Firing for Kitchen Ranges and Steam Boilers. Demy 8vo. Pp. 112. 1920. Constable. 9s.
- Connor, W. J.** The Stoker's Catechism. 16mo. Pp. 63. 1914. Spon. 1s. 6d.
- Dahlstrom, K. P.** The Fireman's Guide, a Handbook on the Care of Boilers. 11th edn. Cr. 8vo. Pp. 34. 1906. Spon. 2s. 6d.
- Foden, J.** The Boiler-Makers' and Iron Ship-builders' Companion. 5th edn. Fcap. 8vo. Pp. 222. 1900. Spon. 6s.
- Fowler, W. H.** Steam Boilers and Supplementary Appliances. A practical Treatise on their Construction, Equipment and Working. New edition in preparation. Scientific Pub. Co.
- Gray, J.** Practical Design of Marine Single- and Double-Ended Boilers. 2nd edn. Demy 8vo. Pp. 136. 1921. Constable. 12s. 6d.
- Hiller, E. G.** Steam Boiler Construction. 2nd edn. Demy 8vo. Pp. 203. 1920. Technical Pub. Co. 3s. 6d.
- Hodgson, J. T.** Modern Boiler Room Practice and Smoke Abatement. Cr. 8vo. Pp. 321. 1920. Transport, Ltd. 3s. 6d.
- Horner, J. G.** Boiler Making and Plating. 2nd edn. Large Cr. 8vo. 1908. Crosby Lockwood. 12s.
- Hughes, V. A. B.** Steam Injector. Cr. 8vo. Pp. 128. 1912. Technical Pub. Co. 4s.
- Hutton, W. S.** Steam Boiler Construction. 5th edn. Med. 8vo. Pp. 680. 1916. Crosby Lockwood. 21s.
- Inchley, W.** Steam Boilers and Boiler Accessories. Cr. 8vo. Pp. 423. 1912. Arnold. 8s. 6d.
- Inspector, The.** Specification for a Lancashire Boiler. 2nd edn. Demy 8vo. Pp. 123. 1907. Technical Pub. Co. 3s. 6d.
- Jackson, P. G.** Boiler Feed Water. A Concise Handbook of Water for Boiler Feeding Purposes; its Effects, Treatment and Analysis. Cr. 8vo. Pp. 111. 1919. Griffin. 4s. 6d.
- Moss, H.** Heat Drop Tables: Absolute Pressures from the Formulæ and Steam Tables of H. L. Callendar. Demy 8vo. Pp. 64. 1917. Arnold. 5s.
- Heat Drop Tables: H.P. Gauge Pressures: L.P. Absolute Pressures, from H. L. Callendar's Formulæ and Steam Tables. Demy 8vo. Pp. 64. 1917. Arnold. 5s.
- Munro, R. D.** Steam Boilers: their Defects, Management, and Construction. 5th edn. in preparation. Griffin.
- Parsons, H. de B.** Steam Boilers: their Theory and Design. 5th edn. 8vo. Pp. 395. 1917. Longmans. 12s. 6d.
- Peattie, J.** Steam Boilers, their management and working on land and sea. 5th edn. Cr. 8vo. Pp. 230. 1919. Spon. 6s.

Mechanical Engineering.

- Powles, H. H. P.** *Steam Boilers: Their History and Development.* Imperial 8vo. Pp. 351. 1905. Constable. 25s.
- Pratt, H. K.** *Boiler Draught.* Cr. 8vo. Pp. 145. 1911. Constable. 4s. 6d.
- Pull, E.** *Modern Steam Boilers: Their Construction, Management and Use.* Demy 8vo. Pp. 290. 1918. Scott, Greenwood. 12s. 6d.
- Pullen, W. W. F.** *Injectors.* 3rd edn. Cr. 8vo. Pp. 208. 1906. Technical Pub. Co. 4s. 9d.
- Rimmer, E. J.** *Boiler Explosions, Collapses and Mishaps.* Demy 8vo. Pp. 150. 1912. Constable. 4s. 6d.
- Robertson, L. S.** *Marine Boilers. Their Construction and Working, dealing more especially with Tubulous Boilers.* 2nd edn. Demy 8vo. Pp. 658. 1906. Murray. 24s.
- *Water-Tube Boilers.* 8vo. Pp. 213. 1901. Murray. 10s. 6d.
- Sexton, M. J.** *Pocket Book of Boiler Making, Ship Building, and the Steel and Iron Trades in general.* 6th edn. Roy. 32mo. Pp. 318. 1918. Spon. 7s. 6d.
- Stewart, G.** *Modern Steam Traps.* Cr. 8vo. Pp. 104. 1907. Technical Pub. Co. 4s.
- Stromeyer, C. E.** *Marine Boiler Management and Construction: being a Treatise on Boiler Troubles and Repairs, Corrosion, Fuels and Heat, on the Properties of Iron and Steel, on Boiler Mechanics, Workshop Practice and Boiler Design.* 5th edn. 8vo. Pp. 458. 1919. Longmans. 21s.
- Trall, T. W.** *Boilers, Marine and Land: their Construction and Strength.* 5th edn. 18mo. Pp. 600. 1920. Griffin. 12s. 6d.
- Wade, C. F.** *Efficient Boiler Management: with Notes on the Operation of Re-heating Furnaces.* 8vo. Pp. 580. 1919. Longmans. 12s. 6d.
- *The Fireman's Handbook and Guide to Fuel Economy. A simple Manual for the use of Stokers, Furnacemen, and others operating and controlling Boiler and Furnace Plant.* Cr. 8vo. Pp. 90. 1920. Longmans. 2s. 6d.
- Walker, S. F.** *Steam Boilers, Engines and Turbines.* Demy 8vo. Pp. 428. 1908. Harper. 10s. 6d.
- Wansbrough, W. D.** *Modern Steam Boilers. (The Lancashire Boiler).* Demy 8vo. Pp. 156. 1913. Crosby Lockwood. 5s. 6d.

xxi. MARINE ENGINES.

- Anon.** *Marine Engineers' Construction and Dimensions Reference Book.* Cr. 8vo. Pp. 24. Jas. Munro. 2s. 6d.
- Barnaby, S. W.** *Marine Propellers.* 6th edn. Demy 8vo. Pp. 230. 1920. Spon. 24s.
- Bauer, G.** *Marine Engines and Boilers: their Design and Construction.* Translated from the German by E. M. and S. B. Donkin. Med. 8vo. Pp. 802. 1919. Crosby Lockwood. 25s.
- Bruce, G. R.** *Marine Engineering Estimates and Costs.* Cr. 8vo. Pp. 126. 1919. Jas. Munro. 6s.
- Butterworth, F.** *Engineer Afloat: Training, Work and Pay.* Cr. 8vo. Pp. 92. 1914. Technical Pub. Co. 2s.
- Collings, E. R.** *Hand-book to the Examination of Engine Room Artificers.* 2nd edn. Cr. 8vo. Pp. 356. 1915. T. Reed and Co. 5s.
- Constantine, E.** *Marine Engineers: Their Qualifications and Duties.* 2nd edn. Cr. 8vo. Pp. 332. 1906. Technical Pub. Co. 6s. 9d.
- Goudie, W. J.** *The Geometry of the Screw Propeller.* Fcap. 4to. Pp. 48. N.D. Blackie. 2s.
- Jackson, D. H.** *Detail Design of Marine Screw Propellers.* Demy 8vo. Pp. 104. 1920. Pitman. 6s.
- Jane, F. T.** *Warship Engineering.* Fcap. 8vo. Pp. 32. 1914. Sampson Low. 2s. 6d.

Mechanical Engineering.

- Liversidge, J. G.** Engine Room Practice: A Handbook for Engineers and Officers in the Royal Navy and Mercantile Marine. 10th edn. Cr. 8vo. Pp. 412. 1919. Griffin. 7s. 6d.
- McGibbon, W. C.** Marine Engineer's Drawings for Second Class Candidates. 4th edn. Demy 4to Oblong. Pp. 53, etc. 1921. Jas. Munro. 6s. 6d.
- Drawing Book for Marine Engineers for First Class certificate. 10th edn. Roy. 4to Oblong. Pp. 34, etc. 1920. Jas. Munro. 8s. 6d.
- Board of Trade and Marine Engineering Knowledge. Steam and Oil. 8vo. Pp. 352. 1921. Jas. Munro. 36s.
- Indicator Diagrams for Marine Engineers. 5th edn. Cr. 4to. Pp. 240. 1919. Jas. Munro. 15s.
- Marine Engineer's Pocket Book. 2nd edn. Fcap. 8vo. Pp. 529. 1919. Jas. Munro. 15s.
- and Tod. Questions with Answers. For Marine Engineers' Board of Trade Examinations, containing the new questions on Oil Motors and Ash Ejectors, etc. 8th edn. Demy 8vo. Pp. 412. 1918. Jas. Munro. 8s.
- McMillan, R. A.** Guide to the B.O.T. Examination for Extra First Class Engineers. Demy 8vo. Pp. 460 and Plates. 1920. Griffin. 25s.
- Calculations for Marine Engineers. Including all the Arithmetic for 1st and 2nd Class Engineers' Certificate. Demy 8vo. Pp. 356. 1912. Griffin. 10s. 6d.
- Elementaries. Verbals and Drawings. The Use and Working of Slide Valves, Indicators, Marine Steam Turbine, Ship Electric Lighting, etc. Demy 8vo. Pp. 331. 1913. Griffin. 10s. 6d.
- Martin and Stoddart.** Sketch and Record Book for Marine Engineers. Demy 8vo. Pp. 111. 1919. James Brown. 3s. 6d.
- Martin, W. D.** Hints to Engineers for Board of Trade Exams. 3rd edn. Cr. 8vo. Pp. 148. Jas. Munro. 4s.
- Verbal Questions and Answers as given to Engineers of Trawlers and Drifters for their Certificate. Cr. 8vo. Pp. 132. Jas. Munro. 3s. 6d.
- Munro's Marine Engineers' Annual.** Pocket Log and Diary. Published Annually in September. Cr. 8vo. Pp. 288. Jas. Munro. 2s. 6d.
- Reed's Engineer's Handbook.** 21st edn. Part 1. Practical Mathematics. Demy 8vo. Pp. 493. 1920. 27s. 6d. Key to ditto. Demy 8vo. Pp. 183. 1920. 8s. 6d. Thos. Reed.
- Roberts, C. W.** Practical Advice for Marine Engineers. 2nd edn. Cr. 8vo. Pp. 204. 1907. Pitman. 5s.
- Seaton, A. E.** A Manual of Marine Engineering, comprising the Design, Construction, and Working of Marine Machinery. 10th edn. 8vo. Pp. 1,012. 1921. Griffin. 36s.
- The Screw Propeller: and other Competing Instruments for Marine Propulsion. Large 8vo. Pp. 268. 1909. Griffin. 15s.
- and Rounthwaite, H. M. A Pocket Book of Marine Engineering Rules and Tables; for the Use of Marine Engineers, Naval Architects, Designers, Draughtsmen, etc. 14th edn. Pocket size. Pp. 763. 1920. Griffin. 15s.
- Sennett, R., and Oram, Sir H. J.** The Marine Steam Engine. 8vo. Pp. 512. 1918. Longmans. 26s.
- Somerscales, A. N.** A.B.C. of Engineering Knowledge. Written specially for Marine Engineers preparing for Board of Trade Examinations. Cr. 8vo. Pp. 314. 1921. Jas. Munro. 12s. 6d.
- Lessons in Mechanics for Marine Engineers: Treated Arithmetically. Cr. 8vo. Pp. 277. 1921. Jas. Munro. 7s. 6d.

Somerscales, A. N. Handbook to Board of Trade Examinations for Extra First-Class Engineers. 4th edn. Demy 8vo. Pp. 544. 1907. Jas. Munro. 18s.

—Formulæ, Rules and Questions in Steam, including Turbines. Cr. 8vo. Pp. 104. 1919. Jas. Munro. 3s. 6d.

Sothorn, J. W. M. Marine Engine Indicator Cards. Containing an exhaustive course of Indicator Diagrams specially arranged for Board of Trade Examination candidates, and for the use of Engineer Officers of all Grades. 2nd edn. Roy. 8vo. Pp. 226. 1918. Jas. Munro. 15s.

—“Verbal Notes” and Sketches for Marine Engineers. A Manual of Marine Engineering Practice. 10th edn. 3rd imp. Roy. 8vo. Pp. 748. 1920. Jas. Munro. 36s.

—Oil Fuel Burning in Marine Practice. A Manual of Instruction. Med. 8vo. Pp. 200. 1920. Jas. Munro. 30s.

Sothorn, R. M. Simple Problems in Marine Engineering Design, including Algebra, for Board of Trade Examinations. 4th edn. Cr. 8vo. Pp. 228. 1919. Jas. Munro. 7s. 6d.

Thorn, W. T. Arithmetical Guide for Marine Engineers. Demy 8vo. Vol. 1. Second Class. Pp. 240. 1917. 6s. Vol. 2. First Class. Pp. 327. 1919. 7s. 6d. James Brown.

—Elementary Questions and Answers for Marine Engineers. Demy 8vo. Pp. 322. 1916. James Brown. 7s. 6d.

Tod's Verbal Questions and Answers for Marine Engineers. 2 Vols. Cr. 8vo. Pp. 301., 271. James Brown. 5s. each.

Tompkins, A. E. A Text-Book of Marine Engineering. 5th edn. 8vo. Pp. 900. 1921. Macmillan. 36s.

Youngson, P. Board of Trade Examination Calculations for First Class Engineers. 8th edn. Cr. 8vo. Pp. 447. Jas. Munro. 10s. 6d.

—Board of Trade Examination Calculations for Second Class Engineers. 8th edn. Cr. 8vo. Pp. 349. Jas. Munro. 10s. 6d.

—Useful Hints to Sea-Going Engineers: and How to Repair and Avoid Breakdowns. 7th edn. Cr. 8vo. Pp. 460. 1921. T. Reed & Co. 7s. 6d.

—Extra Chief Engineers' and Surveyors' Guide to the Examinations of the Board of Trade. Demy 8vo. Pp. 610. 1921. Jas. Munro. 45s.

—and Shaw, J. H. Practical Mathematics for Second-Class Engineers. 9th edn. Cr. 8vo. Pp. 407. 1921. Jas. Munro. 10s. 6d.

xxii. INTERNAL COMBUSTION ENGINES.

Allen, H. Gas and Oil Engines. A Treatise on the Design, Construction, and Working of Internal-combustion Engines, operated by gas from towns' mains, blast furnaces, pressure and suction producers, as well as by oil and petrol. Demy 8vo. Pp. 562. 1907. Scientific Pub. Co. 12s. 6d.

—How to Design A Gas Engine, with full working drawings for a 7-B.H.P. Gas Engine. Cr. 4to. Pp. 40. 1907. Scientific Pub. Co. 2s. 6d.

Asking, C. W., and Roesler, E. Internal Combustion Engines and Gas Producers. Large 8vo. Pp. 313. 1912. Griffin. 15s.

Bale, M. P. Gas and Oil Engine Management. 4th edn. Cr. 8vo. Pp. 176. 1919. Crosby Lockwood. 3s. 6d.

Butler, E. Internal Combustion Engine: Design and Practice. 2nd edn. Demy 8vo. Pp. 289. 1920. Griffin. 21s.

—Carburettors, Vaporisers, and Distributing Valves used in Internal Combustion Engines. 2nd edn. Demy 8vo. Pp. 288. 1919. Griffin. 12s. 6d.

Mechanical Engineering.

- Chalkley, A. P.** *The Diesel Engine for Land and Marine Work.* 4th edn. Demy 8vo. Pp. 385. 1919. Constable. 12s. 6d.
- Clerk, D., and Burls, G. A.** *The Gas Petrol and Oil Engine.* Vol 2. *The Gas, Petrol and Oil Engine in Practice.* New edn. 8vo. Pp. 848. (1913). 1919. Longmans. 28s.
- Codd, M. A.** *Electrical Ignition for Internal Combustion Engines.* 2nd edn. Cr. 8vo. Pp. 172. 1918. Spon. 6s.
- Dommett, W. E.** *Petrol Engine Construction and Drawing.* Demy 4to. Pp. 56. 1912. Arnold. 3s. 6d.
- Donkin, B.** *A Text-Book on Gas, Oil, and Air Engines.* 5th edn. Revised by T. G. Smith; and new matter by Prof. Burstall. Large 8vo. Pp. 662. 1911. Griffin. 30s.
- Garrard, A.** *Gas, Oil, and Petrol Engines. Including Suction Gas Plant and Humphrey Pumps.* Cr. 8vo. Pp. 221. 1916. Pitman. 6s.
- Haeder, H.** *A Handbook on the Gas Engine.* Translated from the German and edited by W. M. Huskisson. Sm. 4to. Pp. 317. 1911. Crosby Lockwood. 30s.
- Judge, A. W.** *Automobile and Aircraft Engines in Theory and Experiment; being a revised and enlarged edition of High Speed Internal Combustion Engines.* Med. 8vo. Pp. 650. 1921. Pitman. 30s.
- Kean, F. J.** *The Petrol Engine. The Principles of Design and Construction.* 2nd edn. Demy 8vo. Pp. 126. 1918. Spon. 6s.
- Kershaw, J. W.** *Elementary Internal Combustion Engines and Gas Producers.* New imp. Cr. 8vo. Pp. 180. 1920. Longmans. 6s. 6d.
- Kirschke, A.** *Gas and Oil Engines.* Translated and Revised from the German, and adapted to British Practice. Cr. 8vo. Pp. 160. 1912. Scott, Greenwood. 4s.
- Lamb, J.** *The Running and Maintenance of the Marine Diesel Engine: a reference book for Marine Motor Engineers, giving practical suggestions from Sea experience.* 2nd edn. Pocket size. Pp. 261. 1921. Griffin. 8s. 6d.
- Lieckfeld, G.** *Oil Motors: Their Development, Construction, and Management.* Med. 8vo. Pp. 287. 1908. Griffin. 18s.
- Marine Oil Engine Handbook.** Compiled by the staff of "The Motor Ship and Motor Boat." 5th edn. Demy 8vo. Pp. 206. 1919. Temple Press. 2s. 6d.
- Marshall, W. J., and Sankey, H. R.** *The Gas Engine.* Ex. Cr. 8vo. Pp. 294. 1920. Constable. 12s. 6d.
- Martin, W. D.** *Marine Oil Engines: Specially for Marine Engineers who are unfamiliar with the working of Oil Engines.* 2nd edn. Cr. 8vo. Pp. 223. 1919. Jas. Munro. 7s. 6d.
- Okill, J.** *Gas and Oil Engine Operation. Including Gas Producers and Petrol Engines.* Cr. 8vo. Pp. 198. 1919. Pitman. 6s.
- Pollock, W.** *Hot Bulb Oil Engines and Suitable Vessels.* Demy 8vo. Pp. 429. 1919. Constable. 42s.
- Purday, H. F. P.** *Diesel Engine Design.* Demy 8vo. Pp. 317. 1919. Constable. 21s.
- Rose, E. M.** *Diesel Engine Design.* Demy 8vo. Pp. 203. 1919. Emmott. 7s. 6d.
- Smith, C. A.** *Suction Gas Plants.* 4th edition in preparation. Griffin.
- Spooner, H. J.** *Notes on, and Drawings of a Four-Cylinder Petrol Engine.* 4to. Pp. 26. 1908. Longmans. 3s. 6d.
- Supino, G.** *Land and Marine Diesel Engines.* Translated by A. G. Bremner and J. Richardson. 4th edn. Large 8vo. Pp. 323. 1920. Griffin. 15s.
- Wells, G. J., and Wallis-Taylor, A. J.** *Diesel or Slow Combustion Oil Engine. A Practical Treatise on their Design and Construction.* 4th edn. Demy 8vo. Pp. 320. 1919. Crosby Lockwood. 10s. 6d.

Mechanical Engineering.

- Wimperis, H. E.** *A Primer of the Internal Combustion Engine. A Text-book for First and Second Year Students.* 3rd imp. Cr. 8vo. Pp. 154. 1919. Constable. 4s.
- *The Internal Combustion Engine. A Text-Book on Gas, Oil, and Petrol Engines, for the use of Students and Engineers.* 3rd edn. Demy 8vo. Pp. 335. 1919. Constable. 9s. 6d.
- xxiii. TURBINES: STEAM AND GAS.**
- Bauer, G., and Lasche, O.** *Marine Steam Turbines.* Translated from the German, and edited by M. G. S. Swallow. Med. 8vo. Pp. 230. 1911. Crosby Lockwood. 12s. 6d.
- Davey, N.** *The Gas Turbine.* Demy 8vo. Pp. 264. 1914. Constable. 15s.
- Foster, F.** *Steam Turbines and Turbo-Compressors. A Treatise on their Design and Construction.* Demy 8vo. Pp. 466. 1906. Scientific Pub. Co. 10s. 6d.
- Goudie, W. J.** *Steam Turbines: A Text-Book for Engineering Students.* New edition in the Press. Longmans.
- Holzwarth, H.** *A Treatise on the Gas Turbine: Theory, Construction, and Records of the Results Obtained from Two Actual Machines.* Translated by A. P. Chalkley. Med. 8vo. Pp. 148. 1912. Griffin. 9s.
- Jude, A.** *The Theory of the Steam Turbine. A Treatise on the Principles of Construction of the Steam Turbine, with Historical Notes on its Development.* 2nd edn. Large 8vo. Pp. 440. 1910. Griffin. 21s.
- Morrow, J.** *Steam Turbine Design, with Especial Reference to the Reaction Type, and including Chapters on Condensers and Propeller Design.* New edition in preparation. Arnold.
- Neilson, R. M.** *The Steam Turbine.* 4th edn. Med. 8vo. Pp. 678. 1912. Longmans. 21s.
- Reed, S. J.** *Turbines Applied to Marine Propulsion.* 2nd edn. Cr. 4to. Pp. 191. 1917. Constable. 16s.
- Sothorn, J. W. M.** *The Marine Turbine. A Practical Illustrated Description of the Parsons and Curtis Marine Geared-Down Steam Turbines, etc.* 6th edn. Roy. 8vo. Pp. 790. 1919. Jas. Munro. 42s.
- Suplee, H. H.** *The Gas Turbine: Progress in the Design and Construction of Turbines operated by Cases of Combustion.* Large 8vo. Pp. 262. 1910. Griffin. 15s.
- Wilda, H.** *Steam Turbines: Their Theory and Construction.* Cr. 8vo. Pp. 200. 1912. Scott, Greenwood. 4s. 6d.
- xxiv. ENGINEERING REFERENCE BOOKS, AND MISCELLANEOUS.**
- A General Manager.** *Engineering Estimates, Costs, and Accounts. A Guide to Commercial Engineering.* 3rd edn. 8vo. Pp. 276. 1911. Crosby Lockwood. 8s. 6d.
- Brooks, G.** (edited by) *The Mechanical Engineer's Price Book.* 2nd edn. Pocket size. Pp. 182. 1914. Spon. 5s.
- Fowler's Mechanical Engineer's Pocket Book, 1921.** Edited by W. H. Fowler. 18mo. Pp. 620. Jan., 1921. Scientific Pub. Co. 3s.
- *Mechanic's and Machinist's Pocket Book, 1921.* Edited by W. H. Fowler. 18mo. Pp. 495. Jan., 1921. Scientific Pub. Co. 2s. 6d.
- Kempe, H. R., and Smith, W. H.** (compiled and edited by) *The Engineer's Year-Book of Formulae, Rules, Tables, Data and Memoranda for 1921. A Compendium of the Modern Practice of Civil, Mechanical, Electrical, Marine, Gas, Aero, Mine, and Metallurgical Engineering.* With collaboration of Eminent Specialists. 28th year of publication. Large Cr. 8vo. Pp. 2,697. Apl. 1921. Crosby Lockwood. 30s.

Mechanical Engineering.

- Mechanical World Year Book**, 1921. 18mo. Pp. 328. Jan., 1921. Emmott. 2s. 6d.
- Practical Engineer Mechanical Pocket Book and Diary**, 1921. 23rd year of Issue. Pocket size. Pp. 566. Feb., 1921. Technical Pub. Co. 2s.
- Rankine, W. J. M.** Useful Rules and Tables: for Architects, Builders, Engineers, Mechanics, Shipbuilders, etc., with Appendix for the use of Electrical Engineers by A. Jamieson. 8th edn. 1907. Griffin. 10s. 6d.
- Ruff, F.** Reference Book for Statical Calculations. Force Diagrams for Frameworks, Tables, Instructions for Statical Calculations, etc., for all Classes of Building and Engineering. Cr. 8vo. Pp. 140. 1906. Spon. 6s.
- Sabine, M. H.** Miscellaneous Tables for Mechanical Draughtsmen. Folio. Pp. 27. 1921. Technical Pub. Co. 8s.
- Spon's Workshop Receipts for Manufacturers, Mechanics and Scientific Amateurs.** New and thoroughly Revised edition. Cr. 8vo. 1919. Vol. 1. Acetylene to Drying. Pp. 532. Vol. 2. Dyeing to Japanning. Pp. 540. Vol. 3. Jointing Pipes to Pumps. Pp. 528. Vol. 4. Rainwater to Wire Ropes. Pp. 540. Spon. 7s. 6d. each.

AERONAUTICS.

i. HISTORICAL AND GENERAL.

- Bacon, G.** All About Flying. Fcap. 8vo. Pp. 134. 1919. Methuen. 2s.
- Bailey, G. C.** The Complete Airman. Demy 8vo. Pp. 280. 1920. Methuen. 16s.
- Bairstow, L.** Progress of Aviation in the War Period. Some Items of Scientific and Technical Interest. (Wilbur Wright Lecture, 1919). Pp. 24. 1919. Royal Aeronautical Society. 2s. 6d.
- Berry, W. H.** Aircraft in War and Commerce. 3rd edn. 8vo. Pp. 152. 1919. Burrow. 2s. 6d.
- Blackburn, C. J., and Newby, E. J.** All About Aircraft. A Simple Text Book. 8vo. Pp. 123. 1919. Burrow. 3s. 6d.
- Bright, C.** Telegraphy, Aeronautics and War. Demy 8vo. Pp. 401. 1914. Constable. 16s.
- Dargon, J.** The Future of Aviation. Translated from the French by P. Nutt. Demy 8vo. Pp. 195. 1919. Nutt. 10s. 6d.
- Gill, N. J.** The Aerial Arm. Its Functions and Development. 8vo. Pp. 168. 1919. Aeroplane Publishing Co. 6s. 6d.
- Grahame-White, C., and Harper, H.** Our First Airways: Their Organization, Equipment, and Finance. Cr. 8vo. Pp. 195. 1919. Lane. 6s. 6d.
- Air-Power: Naval, Military and Commercial. Demy 8vo. Pp. 270. 1917. Chapman & Hall. 7s. 6d.
- Hamel, G., and Turner, C. C.** Flying; some Practical Experiences. 8vo. Pp. 356. 1914. Longmans. 14s.
- Holt-Thomas, G.** Aerial Transport. Demy 4to. Pp. 278. 1920. Hodder & Stoughton. 30s.
- Johnson, V. E.** Model Aero-planing: its Principles and Practice. Demy 8vo. Pp. 265. 1920. Spon. 12s. 6d.
- Kennedy, R.** Flying Machines. Demy 8vo. Pp. 158. 1909. Technical Pub. Co. 6s. 9d.
- Lanchester, F. W.** Aircraft in Warfare: the Dawn of the Fourth Arm. Med. 8vo. Pp. 239. 1916. Constable. 12s. 6d.
- Matthews, R. B., and Others.** The British Aircraft Industry: Its Industrial and Commercial Potentialities. A Reprint from *The Times, Supplement*, for April, 1918. Cr. 8vo. Pp. 305. 1918. Hodder and Stoughton. 6s.
- Middleton, E. C.** Airfare of To-day and of the Future. Cr. 8vo. Pp. 192. 1917. Constable. 3s. 6d.
- Robson, W. A.** Aircraft in War and Peace. Cr. 8vo. Pp. 182. 1916. Macmillan. 3s.
- Spaight, J. M.** Aircraft in Peace and the Law. 8vo. Pp. 233. 1919. Macmillan. 8s. 6d.
- Aircraft in War. 8vo. Pp. 189. 1914. Macmillan. 7s. 6d.
- Swinton, A. J.** (edited by). The Aeroplane Handbook. Demy 8vo. Pp. 284. 1920. Aeroplane & General Pub. Co. 21s.
- Turner, C. C.** Aircraft of To-Day. Cr. 8vo. Pp. 315. 1918. Seeley. 7s. 6d.
- The Struggle in the Air 1914—1918. A Personal Narrative. Demy 8vo. Pp. 296. 1919. Arnold. 15s.

Winchester, C. Flying Men and their Machines. Demy 8vo. Pp. 242. 1916. Dent. 7s. 6d.

II. THEORY AND PRACTICE OF FLIGHT.

Aston, W. G. Aeronautics Made Easy. Cr. 8vo. Pp. 186. 1919. Iliffe. 4s. 6d.

Avion. The Way to Fly: A Practical Introduction to Flight for Beginners. Cr. 8vo. Pp. 156. 1919. Pearson. 3s. 6d.

Baird, L. Applied Aero-dynamics. 8vo. Pp. 578. 1920. Longmans. 32s.

Berriman, A. E. Aviation: an Introduction to the Elements of Flight. 2nd edn. Demy 8vo. Pp. 388. 1913. Methuen. 12s. 6d.

Bryan, G. H. Stability in Aviation. 8vo. Pp. 204. 1911. Macmillan. 6s. 6d.

Chatley, H. The Problem of Flight. A Text-book of Aerial Engineering. 3rd edn. in preparation. Griffin.

Cowley, W. L., and Levy, H. Aeronautics in Theory and Practice. 2nd edn. Demy 8vo. Pp. 343. 1920. Arnold. 25s.

De Villamil, R. Resistance of Air. Demy 8vo. Pp. 192. 1917. Spon. 8s. 6d.

— The Laws of Avanzini. Laws of Planes moving at an Angle in Air and Water. Super Roy. 8vo. Pp. 23. 1912. Spon. 2s.

Devillers, R. The Dynamics of the Aeroplane. Translated by W. J. Walker. Demy 8vo. Pp. 310. 1920. Spon. 21s.

Duchêne, E. A. Flight Without Formulae: Simple Discussions on the Mechanics of the Aeroplane. Translated by J. H. Ledebor. 3rd imp. 8vo. Pp. 220. 1918. Longmans. 9s.

— The Mechanics of the Aeroplane. A Study of the Principles of Flight. Translated by J. H. Ledebor and T. O'B. Hubbard. 8vo. Pp. 240. 1918. Longmans. 9s.

Eiffel, G. The Resistance of the Air and Aviation. Translated by J. C. Hunsaker. 2nd edn. Roy. 4to. Pp. 242. Constable. 42s.

Greenhill, Sir A. G. Dynamics of Mechanical Flight. Demy 8vo. Pp. 121. 1912. Constable. 6s.

— Report on Gyroscopic Theory. 1914. H.M.S.O. 10s.

— Report on the Theory of a Stream Line past a Plane Barrier, and of the Discontinuity arising at the Edge, with an Application of the Theory to an Aeroplane. 1911. H.M.S.O. 5s.

— Appendix to ditto. Theory of a Stream Line past a Curved Wing. 1916. H.M.S.O. 4s.

Hankin, E. H. Animal Flight: A Record of Observation. Demy 8vo. Pp. 413. 1914. Iliffe. 12s. 6d.

Hobbs, F. D. How to Fly and Instruct on an "Avro." Cr. 8vo. Pp. 75. 1919. Longmans. 3s. 6d.

Hunsaker, J. C. The Triplane and the Stable Biplane. Demy 8vo. Pp. 36. 1918. Pitman. 3s.

Lanchester, F. W. Aerial Flight. Demy 8vo. Vol. 1. Aerodynamics, 4th edn. Pp. 442. 1918. Vol. 2. Aerodnetics. 2nd edn. Pp. 433. 1917. Constable. 21s. each.

— The Flying Machine from an Engineering Point of View. Together with a Discussion concerning the Theory of Sustentation and Expenditure of Power in Flight. Demy 8vo. Pp. 143. 1918. Constable. 5s.

Laws, B. C. Stability and Equilibrium of Floating Bodies. Demy 8vo. Pp. 261. 1914. Constable. 10s. 6d.

Le Maitre, W. Natural Stability, and the Parachute Principle in Aeroplanes. Cr. 8vo. Pp. 48. 1911. Spon. 2s. 6d.

McMinnies, W. G. Practical Flying: Complete Course of Flying Instruction. 2nd edn. Cr. 8vo. Pp. 237. 1918. Temple Press. 5s.

Roberts, C. Training the Airmen: How they Fly. Cr. 8vo. Pp. 92. 1919. Murray. 3s. 6d.

Shaw, H. A Text-book of Aeronautics. Med. 8vo. Pp. 260. 1919. Griffin. 10s. 6d.

Thomson, G. P. Applied Aerodynamics. 4to. Pp. 312. 1920. Hodder & Stoughton. 42s.

Thurston, A. P. Elementary Aeronautics, or the Science and Practice of Aerial Machines. 2nd edn. Demy 8vo. Pp. 231. 1920. Pitman. 8s. 6d.

Waikden, S. L. Aeroplanes in Gusts, Soaring Flight and the Stability of Aeroplanes. 2nd edn. 8vo. Pp. 280. 1913. Spon. 12s. 6d.

iii. DESIGN AND CONSTRUCTION.

Andrews, S. T. G., and Benson, S. F. The Theory and Practice of Aeroplane Design. Demy 8vo. Pp. 466. 1920. Chapman & Hall. 15s. 6d.

Camm, S. Aeroplane Construction. A Handbook on the Various Methods and Details of Construction employed in the Building of Aeroplanes. Demy 8vo. Pp. 146. 1919. Crosby Lockwood. 7s. 6d.

Camm, F. J. The Design of Model Aeroplanes. Demy 8vo. Pp. 172. 1919. Benn Bros. 7s. 6d.

Fage, A. The Aeroplane: A Concise Scientific Study. 5th edn. Med. 8vo. Pp. 188. 1918. Griffin. 7s. 6d.

Hanby, W. Metals in Aircraft Construction. Demy 8vo. Pp. 112. 1920. Standard Air Press. 6s.

Hill, F. T. Practical Aeroplane Construction. A Treatise on Modern Workshop Practice as applied to the Building of Aircraft. Demy 8vo. Pp. 248. 1920. Spon. 12s. 6d.

Jones, T. H., and Frier, J. D. Aeroplane Structural Design. A Book for Designers, Draughtsmen and Students. Demy 8vo. Pp. 279. 1920. Pitman. 21s.

Judge, A. W. The Design of Aeroplanes. 2nd edn. Med. 8vo. Pp. 242. 1917. Pitman. 14s.

— Elementary Principles of Aeroplane Design and Construction. Med. 8vo. Pp. 116. 1919. Pitman. 7s. 6d.

— Fuselage Design. Demy 8vo. Pp. 30. 1919. Pitman. 3s.

— Aircraft and Automobile Materials of Construction. A Treatise for Aircraft, Automobile, and Mechanical Engineers, Manufacturers, Constructors, Designers, Draughtsmen, Students, etc. Demy 8vo. Vol. 1. Ferrous Materials. Pp. 755. 1920. Vol. 2. Non-Ferrous and Organic Materials. Pp. 606. 1921. Pitman. 25s. each.

Kennedy, R. The Principles of Aeroplane Construction, with Calculations, Formulæ. 8vo. Pp. 146. 1911. Churchill. 6s. 6d.

Morgan, A. P. How to Build a 20-ft. Bi-plane Glider. Cr. 8vo. Pp. 60. 1909. Spon. 2s. 6d.

Pippard, A. J. S., and Pritchard, J. L. Aeroplane Structures, with an Introduction by L. Bairstow. 8vo. Pp. 374. 1919. Longmans. 21s.

iv. AIRSCREWS AND AEROFOILS.

Fage, A. Airscrews in Theory and Experiment. Cr. 4to. Pp. 208. 1920. Constable. 34s.

Judge, A. W. The Properties of Aerofoils and Resistance of Aerodynamic Bodies. Med. 8vo. Pp. 298. 1917. Pitman. 18s.

Riach, M. A. S. Air-Screws. An Analytical Study in the Application of the Analogy of an Aerofoil having a Rectilinear Motion. Demy 8vo. Pp. 144. 1916. Crosby Lockwood. 10s. 6d.

Park, W. E. A Treatise on Airscrews. Demy 8vo. Pp. 320. 1920. Chapman & Hall. 21s.

Watts, H. C. The Design of Screw Propellers for Aircraft. 8vo. Pp. 354. 1920. Longmans. 25s.

Aeronautics.

v. AERO ENGINES.

BurIs, G. A. Aero Engines: with a General Introductory Account to the Theory of the Internal Combustion Engine. 11th edn. Demy 8vo. Pp. 206. 1918. Griffin. 8s. 6d.

Clark, A. G. Aeronautical Engines. Demy 8vo. In preparation. Chapman & Hall.

Devillers, R. Automobile and Aero Engines. A Handbook for Students, Draughtsmen and Designers. Translated by W. J. Walker. Demy 8vo. Pp. 416. 1919. Spon. 16s.

Kean, F. J. Aeronautical Engines. A critical survey of current practice with special reference to the balancing of inertia forces. 2nd edn. Demy 8vo. Pp. 102. 1918. Spon. 7s. 6d.

Klemin, A. A Text-book of Aeronautical Engineering. Demy 8vo. Pp. 317. 1919. Pitman. 15s.

Sylvester, C. Design and Construction of Aero Engines. Demy 8vo. Pp. 147. 1919. Aeroplane Pub. Co. 6s.

Wallace, J. Design of Aeroplane Engines. Demy 8vo. Pp. 246. 1920. Benn Bros. 15s.

vi. AERIAL NAVIGATION.

Card, S. F. Air Navigation Notes and Examples. Demy 8vo. Pp. 148. 1919. Arnold. 10s. 6d.

Creagh-Osborne, F. The Magnetic Compass in Aircraft. 5th edn. Small Cr. 8vo. Pp. 48. 1918. Arnold. 1s. 6d.

Dixie, A. E. Air Navigation for Flight Officers. Demy 8vo. Pp. 234. 1917. John Hogg. 10s. 6d.

Dumbleton, J. E. Principles and Practice of Aerial Navigation. Demy 8vo. Pp. 180. 1920. Crosby Lockwood. 12s. 6d.

Wimperis, H. E. A Primer of Air Navigation. Cr. 8vo. Pp. 142. 1920. Constable. 8s. 6d.

vii. REFERENCE BOOKS FOR AVIATORS.

Aerial Year Book and Who's Who in the Air, 1920. Cr. 8vo. Pp. 328. 1920. Cross Atlantic Newspaper Service. Paper, 2s. 6d. Cloth, 4s.

Blake, W. J. The Aviation Catechism. Roy. 16mo. Pp. 64. 1919. Nisbet. 1s. 6d.

Dander, M. M. Airman's International Dictionary; including the most important Technical Terms of Aircraft Construction. English—French—Italian—German, with a "one alphabet" index for these four languages. Pocket size. Pp. 228. 1920. Griffin. 6s.

Dommett, W. E. A Dictionary of Aircraft. Cr. 8vo. Pp. 52. 1918. Pitman. 2s.

— Aeroplanes and Airships. Cr. 8vo. Pp. 76. 1919. Pitman. Paper, 1s. 9d. Cloth, 3s.

Henslowe, L. Aero Dictionary. English-French: French-English. Fcap. 8vo. Pp. 86. 1920. Benn Bros. 5s.

Jane, F. T. All the World's Aircraft, 1920. Edited and compiled by C. G. Grey. Oblong 8vo. Pp. 364. Dec., 1920. Sampson Low. 42s.

— Jane's Pocket Aeronautical Dictionary. Edited by C. G. Grey. Pocket Size. Pp. 64. 1919. Sampson Low. 1s. 6d.

Lycett, J. Aviation Technical Dictionary. Demy 8vo. Pp. 185. 1919. Nutt. 7s. 6d.

Matthews, R. B. The Aviation Pocket-Book for 1919-20. A Compendium of Modern Practice and a Collection of Useful Notes, Formulae, Rules, Tables, and Data relating to Aeronautics. 7th edn. Cr. 8vo. Pp. 536. 1920. Crosby Lockwood. 12s. 6d.

— and Clarkson, G. T. The Aircraft Identification Book. Cr. 8vo. Pp. 118. 1919. Crosby Lockwood. 3s. 6d.

Aeronautics.

Wade, W. L. (edited by). *The Flying Book: The Aviation World Who's Who and Industrial Directory.* 8vo. Pp. 290. 1918. Longmans. 5s.

viii. BALLOONS, DIRIGIBLES, etc.

Hoernes, H. *A Compendium of Aviation and Aerostatics, Balloons, Dirigibles, and Flying Machines.* Pocket size. Pp. 191. 1911. Griffin. 3s.

Pratt, H. B. *Commercial Airships.* 8vo. Pp. 250. 1920. Nelson. 15s.

Summer, P. H. *The Design and Stability of Stream Line Kite Balloons; with useful Tables, Aeronautical and Mechanical Formulæ.* 8vo. Pp. 146. 1920. Crosby Lockwood. 10s. 6d.

Talbot, F. A. *Aeroplanes and Dirigibles of War.* Cr. 8vo. Pp. 296. 1915. Heinemann. 3s. 6d.

Whale, G. *British Airships: Past, Present and Future.* Cr. 8vo. Pp. 244. 1919. Lane. 7s. 6d.

PHYSICS.

i. COLLECTED WORKS AND HISTORICAL.

Buchanan, J. Y. Scientific Papers. Vol. 1. Demy 8vo. Pp. 326. 1913. Cambridge University Press. 5s.

— Comptes Rendus of Observation and Reasoning. Demy 8vo. Pp. 492. 1917. Cambridge University Press. 7s. 6d.

— Accounts rendered of Work Done and Things Seen. (Scientific Papers). Demy 8vo. Pp. 494. 1919. Cambridge University Press. 21s.

Poynting, J. H. Collected Scientific Papers. Edited by G. A. Shakespear and G. Barlow. Roy. 8vo. Pp. 800. 1920. Cambridge University Press. 37s. 6d.

Rayleigh, Lord. Scientific Papers. 6 Vols. Roy. 8vo. Vol. 1. Pp. 577. 1899. 17s. 6d. Vol. 2. Pp. 612. 1900. 17s. 6d. Vol. 3. Pp. 608. 1902. 17s. 6d. Vol. 4. Pp. 618. 1903. 18s. 6d. Vol. 5. Pp. 636. 1912. 17s. 6d. Vol. 6. Pp. 718. 1920. 50s. Cambridge University Press.

Schuster, Sir A. The Progress of Physics during 33 years (1875—1908). Demy 8vo. Pp. 174. 1911. Cambridge University Press. 5s. 6d.

Stokes, Sir G. G. Mathematical and Physical Papers. 5 vols. Demy 8vo. Vol. 1. Pp. 338. 1880. 21s. Vol. 2. Pp. 374. 1883. 17s. 6d. Vol. 3. 17s. 6d. Vol. 4. Pp. 386. 1904. 17s. 6d. Vol. 5. Pp. 395. 1905. 21s. Cambridge University Press.

— Memoirs presented to the Cambridge Philosophical Society on the occasion of his Jubilee. Demy 4to. Pp. 475. 1906. Cambridge University Press. 21s.

Thomson, J. Collected Papers in Physics and Engineering. Selected and arranged by Sir J. Larmor and J. Thomson. Demy 8vo. Pp. 592. 1912. Cambridge University Press. 18s.

Whetham, W. C. D. The Recent Development of Physical Science. Large Cr. 8vo. Pp. 338. 1909. Murray. 7s. 6d.

ii. GENERAL WORKS.

Aldous, J. C. P. An Elementary Course of Physics. Ex. Cr. 8vo. Pp. 902. 1910. Macmillan. 7s. 6d.

Allen, H. S., and Moore, H. A. Text-book of Practical Physics. Ex. Cr. 8vo. Pp. 638. 1920. Macmillan. 10s. 6d.

Bower, W. R., and Satterly, J. Practical Physics. (Being Vol. 6 of The Tutorial Physics. 6th imp. Cr. 8vo. Pp. 402. 1918. University Tutorial Press. 6s. 6d.

Brown, S. E. Experimental Science. Cr. 8vo. 1918. 2 Parts. Part 1. Physics. Pp. 280. 6s. 6d. Part 2. Chemistry. Pp. 148. 4s. 6d. The two parts in one volume. 10s. 6d. Cambridge University Press.

Campbell, N. R. Physics: The Elements. Large Roy. 8vo. Pp. 576. 1920. Cambridge University Press. 40s.

Candy, H. C. H. A Manual of Physics, Theoretical and Practical, for Medical Students. 2nd edn. Fcap. 8vo. Pp. 451. 1918. Cassell. 7s. 6d.

Catechism Series. Physics. 2nd edn. 2 Parts. Revised by G. C. Knott. Livingstone. 1s. 9d. each.

- Christiansen, C.** *Elements of Theoretical Physics.* Translated by W. F. Magie. 8vo. Pp. 352. 1897. Macmillan. 16s.
- Corbin, H. F., and Stewart, A. M.** *A Handbook of Physics and Chemistry.* 5th edn. Cr. 8vo. Pp. 504. 1920. Churchill. 15s.
- Crowther, J. A.** *A Manual of Physics for Medical Students.* Cr. 8vo. Pp. 564. 1919. Frowde and Hodder. 16s.
- Darling, C. R.** *Liquid Drops and Globules, their Formation and Movements.* Cr. 8vo. Pp. 94. 1914. Spon. 3s. 6d.
- Duncan, J., and Starling, S. G.** *A Text-book of Physics for the Use of Students of Science and Engineering.* 2nd edn. Ex. Cr. 8vo. Pp. 1,118. 1920. 18s. also in Parts; Dynamics, 6s.; Heat, Light and Sound, 7s. 6d.; Magnetism and Electricity, 5s.; Heat, 4s. 6d.; Light and Sound, 4s. 6d. Macmillan.
- Edser, E.** *General Physics for Students.* A Text-book on the Fundamental Properties of Matter. Gl. 8vo. Pp. 644. 1913. Macmillan. 8s. 6d.
- Glazebrook, Sir R. T., and Shaw, Sir W. N.** *Practical Physics.* Cr. 8vo. Pp. 660. 1918. Longmans. 11s.
- Gray, A.** *Treatise on Physics.* Vol. 1. Dynamics and Properties of Matter. 8vo. Pp. 712. 1901. Churchill. 18s.
- Gregory, Sir R. A., and Hadley, H. E.** *A Class Book of Physics.* New imp. Cr. 8vo. Pp. 516. 1920. Macmillan. 6s. 6d.
- and **Simmons, A. T.** *Experimental Science. An Elementary Course of Physics and Chemistry.* Gl. 8vo. Pp. 346. 1919. Macmillan. 3s.
- *Exercises in Practical Physics for Schools of Science.* 2 Parts. New imp. Gl. 8vo. Pp. 208., 182. 1915. Macmillan. 2s. 6d. each part.
- Hadley, H. E.** *Manual of Practical Physics.* Gl. 8vo. Pp. 274. 1916. Macmillan. 4s.
- Houstoun, R. A.** *The Elements of Physics.* 8vo. Pp. 230. 1919. Longmans. 7s. 6d.
- *An Introduction to Mathematical Physics.* 8vo. Pp. 210. 1912. Longmans. 9s.
- Hurst, H. E., and Lattey, R. T.** *A Text-book of Physics.* Demy 8vo. Pp. 271. 1916. 12s. 6d. Also in 3 parts. Part 1. Dynamics and Heat. 4s. Part 2. Light and Sound. 4s. Part 3. Magnetism and Electricity. 5s. Constable.
- Jackson, C. E.** *Examples in Physics.* 5th edn. Cr. 8vo. Pp. 188. 1920. Methuen. 5s.
- *First Year Physics.* 4th edn. Cr. 8vo. Pp. 120. 1919. Methuen. 3s.
- Jones, D. E.** *Elementary Lessons in Heat, Light and Sound.* New imp. Gl. 8vo. Pp. 292. 1920. Macmillan. 3s.
- Jones, L. M.** *Practical Physics.* Cr. 8vo. Pp. 338. 1909. Longmans. 4s.
- Jude, R. H., and Gossin, H.** *Physics: Experimental and Theoretical.* Vol. 1., with Examples and exercises. Demy 8vo. Pp. 927. 1896. 16s. 6d. Also in 2 Parts. Part 1. Mechanics, Hydrostatics, and Pneumatics. 5s. Part 2. Heat. 9s. 6d. Chapman & Hall.
- Kelsey, W. R.** *Physical Determinations. Laboratory Instructions for the Determination of Physical Quantities connected with General Physics, Heat, Light, etc.* 3rd edn. Cr. 8vo. Pp. 341. 1907. Arnold. 7s.
- Knott, C. G.** *Physics: an Elementary Text-Book for University Classes.* 3rd edn. thoroughly Revised and Amplified, and containing an entirely new Chapter on the Electron Theory and Radio-Activity. Cr. 8vo. Pp. 370. 1913. Chambers. 8s. 6d.
- Lommel, Prof. von.** *Experimental Physics.* Translated by G. W. Myers. 8vo. Pp. 685. 1899. Kegan Paul. 15s.
- McDowall, S. A.** *A Laboratory Note Book of Physics.* 2 vols. Pott 4to. Pp. 166., 126. Dent. 4s. each.

Physics.

- McLean, A.** *Practical Physics.* A Text-book for Technical Schools and Colleges. Demy 8vo. Pp. 402. 1912. Black. 7s. 6d.
- Poynting, J. H., and Thomson, Sir J. J.** *A Text-Book of Physics.* Large 8vo. Vol. 1. Properties of Matter. 8th edn. Pp. 235. 1920. 10s. 6d. Vol. 2. Sound. 7th edn. Pp. 164. 1920. 8s. 6d. Vol. 3. Heat. 6th edn. Pp. 354. 1920. 15s. Vol. 4. Electricity and Magnetism. Parts 1 and 2. 2nd edn. Pp. 359. 1920. 10s. 6d. Part 3 in preparation. Vol. 5. Light, in preparation. Griffin.
- Rintoul, D.** *An Introduction to Practical Physics.* New imp. Gl. 8vo. Pp. 186. 1917. Macmillan. 3s.
- Schuster, Sir A., and Lees, C. H.** *An Intermediate Course of Practical Physics.* Cr. 8vo. Pp. 272. 1918. Macmillan. 6s.
- *Exercises in Practical Physics.* 4th edn. Demy 8vo. Pp. 379. 1915. Cambridge University Press. 9s.
- Siddons, A. W., and Vassall, A.** *Practical Measurements.* Fcap. 4to. Pp. 74. 1912. Cambridge University Press. 2s. 6d.
- Southerns, L.** *An Outline of Physics.* Cr. 8vo. Pp. 217. 1920. Methuen. 6s. 6d.
- Stallo, J. B.** *Concepts and Theories of Modern Physics.* 4th edn. Cr. 8vo. Pp. 368. 1900. Kegan Paul. 7s. 6d.
- Stanley, H.** *Practical Applied Physics.* Cr. 8vo. Pp. 234. 1914. Methuen. 5s.
- *Preliminary Practical Science. Some Fundamental Principles of Physical Science, with their practical applications.* 2nd edn. Cr. 8vo. Pp. 136. 1920. Methuen. 2s. 6d.
- Stewart, B.** *Conservation of Energy.* 10th edn. Cr. 8vo. Pp. 195. 1909. Kegan Paul. 7s. 6d.
- Stewart, B., and Gee, W. W. H.** *Lessons in Elementary Practical Physics.* Vol. 1. Cr. 8vo. General Physical Processes. Pp. 314. 1912. Macmillan. 7s.
- Stewart, R. W.** *An Elementary Text-book of Physics.* 4 vols. Cr. 8vo. Vol. 1. General Physics. Pp. 421. 1910. 5s. Vol. 2. Sound. Pp. 148. 1909. 3s. Vol. 3. Light. Pp. 226. 1909. 4s. Vol. 4. Heat. Pp. 247. 1910. 4s. Griffin.
- and Don, J. *Matriculation Physics: Heat, Light and Sound.* 13th imp. Cr. 8vo. Pp. 420. 1918. University Tutorial Press. 6s. 6d.
- Watson, W.** *A Text-Book of Physics including a collection of Examples and Questions.* 7th edn. Revised by H. Moss. Large Cr. 8vo. Pp. 1,002. 1921. Longmans. 21s.
- *Intermediate Physics.* 8vo. Pp. 564. 1918. Longmans. 15s.
- *A Text-Book of Practical Physics. A Book of Reference for the Student working in a Physical Laboratory.* Cr. 8vo. Pp. 646. 1919. Longmans. 10s. 6d.
- *Elementary Practical Physics: a Laboratory Manual.* Cr. 8vo. Pp. 268. 1919. Longmans. 4s.
- White, W. H.** *A Handbook of Physics.* Cr. 8vo. Pp. 683. 1912. Methuen. 8s. 6d.
- Willows, R. S.** *A Text-book of Physics.* 2nd edn. 4th imp. Cr. 8vo. Pp. 520. 1920. Arnold. 9s.
- Wilson, H. A.** *Experimental Physics. A Text-book of Mechanics, Heat, Sound and Light.* 2nd imp. Demy 8vo. Pp. 413. (1915) 1920. Cambridge University Press. 14s.
- Wright, M. R.** *Sound, Light and Heat.* Cr. 8vo. Pp. 288. 1912. Longmans. 5s.
- Yorke, J. P.** *Elementary Physics for Engineers.* Cr. 8vo. Pp. 174. 1916. Cambridge University Press. 4s. 6d.

Physics.

a. Heat.

- Eccles, J. R.** Advanced Lecture Notes on Heat. Cr. 4to. Pp. 186. 1921. Cambridge University Press. 10s. 6d.
- Edser, E.** Heat for Advanced Students. Gl. 8vo. Pp. 500. 1920. Macmillan. 5s. 6d.
- Fourier, J.** The Analytical Theory of Heat. Translated, with notes, by A. Freeman. Demy 8vo. Pp. 489. 1878. Cambridge University Press. 12s.
- Glazebrook, Sir R. T.** Heat and Light. An Elementary Text-book. Cr. 8vo. Pp. 449. 1919. 10s. Also separately. Heat. 5s. Light. 6s. Cambridge University Press.
- Griffiths, E. H.** The Thermal Measurement of Energy. Cr. 8vo. Pp. 143. 1901. Cambridge University Press. 3s. 3d.
- Hart, J. B.** A Students' Heat. Cr. 8vo. Pp. 376. Dent. 5s. 6d.
- Maxwell, J. G.** Theory of Heat. 10th edn., revised by Lord Rayleigh. Cr. 8vo. Pp. 362. 1916. Longmans. 6s. 6d.
- Preston, T.** The Theory of Heat. 3rd edn., edited by J. R. Cotter. 8vo. Pp. 860. 1919. Macmillan. 25s.
- Scarlett, R. H.** A School Course of Heat. Cr. 8vo. Pp. 316. 1910. Longmans. 4s. 6d.
- Smith, J. H.** The Study of Heat. 9th edn. Cr. 8vo. Pp. 144. 1890. Longmans. 3s. 6d.
- Stewart, R. W.** The New Matriculation Heat. 2nd edn. 8th imp. Cr. 8vo. Pp. 245. 1920. University Tutorial Press. 4s.
- Higher Text-Book of Heat (being Vol. 2. of the Tutorial Physics). 2nd edn. 5th imp. Cr. 8vo. Pp. 407. 1917. University Tutorial Press. 9s. 6d.
- and **Satterly, J.** Text-Book of Heat: Theoretical and Practical. 3rd imp. Cr. 8vo. Pp. 488. 1917. University Tutorial Press. 6s. 6d.
- Wright, M. R.** Advanced Heat. Cr. 8vo. Pp. 362. 1919. Longmans. 6s. 6d.

b. Thermodynamics.

- Callendar, H. L.** Properties of Steam and Thermodynamic Theory of Turbines. Demy 8vo. Pp. 543. 1920. Arnold. 40s.
- Draper, C. H.** Heat and the Principles of Thermodynamics. Demy 8vo. Pp. 428. 1917. Blackie. 6s.
- Ewing, Sir J. A.** Thermodynamics for Engineers. Demy 8vo. Pp. 396. 1920. Cambridge University Press. 30s.
- Macaulay, W. H.** The Laws of Thermodynamics. Demy 8vo. Pp. 80. 1913. Cambridge University Press. 3s.
- Naylor, C. H.** Correction Tables for Thermodynamic Efficiency. Demy 8vo. Pp. 60. 1917. Arnold. 5s.
- Parker, J.** A Treatise on Elementary Thermodynamics. Cr. 8vo. Pp. 416. 1891. Cambridge University Press. 9s.
- Partington, J. R.** A Text-Book of Thermodynamics; with special reference to Chemistry. Demy 8vo. Pp. 562. 1913. Constable. 14s.
- Planck, M.** Treatise on Thermodynamics. Translated by A. Ogg. 8vo. Pp. 284. 1917. Longmans. 10s.
- ### c. High Temperatures.
- Darling, C. R.** Pyrometry. A Practical Treatise on the Measurement of High Temperatures. 2nd edn. Cr. 8vo. Pp. 236. 1920. Spon. 10s. 6d.
- Griffiths, E.** Methods of Measuring Temperature. Large 8vo. Pp. 187. 1918. Griffin. 8s. 6d.
- Methods and Appliances for the Attainment of High Temperatures in the Laboratory.** Faraday Society Report, 1917. Demy 8vo. Pp. 12. 1917. Faraday Society. 2s. 6d.
- Pyrometers and Pyrometry.** A General Discussion. Faraday Society Report, 1918. Demy 8vo. Pp. 170. 1918. Faraday Society. 12s. 6d.

d. Gases.

Burbury, S. H. *A Treatise on the Kinetic Theory of Gases.* Demy 8vo. Pp. 165. 1899. Cambridge University Press. 9s.

Burstall, F. W. *The Energy-Diagram for Gas: with Descriptive Text.* Roy. 8vo. Pp. 20. 1912. Constable. 5s.

Clowes, F. *The Detection and Measurement of Inflammable Gas and Vapour in the Air.* Cr. 8vo. Pp. 218. 1896. Crosby Lockwood. 6s.

Eason, A. B. *The Flow and Measurement of Air and Gases.* Med. 8vo. Pp. 264. 1919. Griffin. 25s.

Haldane, J. S. *Methods of Air Analysis.* Suitable for work in Physiology, Hygiene, Investigations of Mine Air, Flue Gases, Exhaust Gases from Engines, etc. 3rd edn. Cr. 8vo. Pp. 147. 1920. Griffin. 6s.

Jeanes, J. H. *The Dynamical Theory of Gases.* 3rd edn. 4to. Pp. 450. 1921. Cambridge University Press. 30s.

Kimball, A. L. *The Physical Properties of Gases.* Cr. 8vo. Pp. 246. 1890. Heinemann. 5s.

Occlusion of Gases by Metals, The. *A General Discussion.* Faraday Society Report, 1919. Demy 8vo. Pp. 93. 1919. Faraday Society. 8s. 6d.

Ramsay, Sir W. *The Gases of the Atmosphere: the History of their Discovery.* 4th edn. Ex. Cr. 8vo. Pp. 320. 1915. Macmillan. 7s. 6d.

Shaw, Sir W. N. *Air Currents and the Laws of Ventilation.* Demy 8vo. Pp. 106. 1907. Cambridge University Press. 4s.

Watson, H. W. *A Treatise on the Kinetic Theory of Gases.* 2nd edn. Cr. 8vo. Pp. 102. 1893. Oxford: Clarendon Press. 4s. 6d.

e. Light.

Aldis, W. S. *An Elementary Treatise on Geometrical Optics.* 8th edn. Pp. 195. 1910. Bell. 4s. 6d.

Bateman, H. *The Mathematical Analysis of Electrical and Optical Wave Motion.* Demy 8vo. Pp. 168. 1915. Cambridge University Press. 8s. 6d.

Boys, C. V. *Soap Bubbles, their Colours and the Forces which Mould them.* New edn. Post 8vo. Pp. 200. 1920. S.P.C.K. 5s.

Clay, R. S. *Treatise on Practical Light.* Ex. Cr. 8vo. Pp. 536. 1911. Macmillan. 12s. 6d.

— *Practical Exercises in Light; a Laboratory Course for Schools of Science and Colleges.* New imp. Gl. 8vo. Pp. 200. 1914. Macmillan. 3s.

Cross, W. E. *Elementary Physical Optics.* Cr. 8vo. Pp. 312. 1913. Oxford: Clarendon Press. 4s.

Curry, C. E. *Electromagnetic Theory of Light.* 8vo. Part I. Pp. 416. 1905. Macmillan. 12s.

Eccles, J. R. *Lecture Notes on Light.* Cr. 4to. Pp. 217. 1917. 7s. Key, with 85 pages of diagrams. 12s. 6d. Cambridge University Press.

— *Advanced Lecture Notes on Light.* Cr. 4to. Pp. 141. 1919. 7s. 6d. Cambridge University Press.

Edser, E. *Light for Students.* Gl. 8vo. Pp. 588. 1919. Macmillan. 7s.

Emtage, W. T. A. *Light.* Cr. 8vo. Pp. 360. 1903. Longmans. 7s. 6d.

Glazebrook, Sir R. T. *Physical Optics.* Cr. 8vo. Pp. 474. 1914. Longmans. 7s. 6d.

Heath, R. S. *Elementary Treatise on Geometrical Optics.* 3rd edn. Cr. 8vo. Pp. 247. 1907. Cambridge University Press. 6s.

Herman, R. A. *A Treatise on Geometrical Optics.* Demy 8vo. Pp. 350. 1900. Cambridge University Press. 10s.

Högnér, P. *Light, Radiation and Illumination.* Translated from the German by J. Eck. Demy 8vo. Pp. 100. N.D. Benn Bros. 7s. 6d.

Houstoun, R. A. *A Treatise on Light.* New imp. Demy 8vo. Pp. 492. 1920. Longmans. 12s. 6d.

- Huygens, C.** Treatise on Light. Translated by S. P. Thompson. Fcap. 4to. Pp. 142. 1912. Macmillan. 10s.
- Kelvin, Lord.** Baltimore Lectures on Molecular Dynamics and the Wave Theory of Light. Demy 8vo. Pp. 715. 1904. Cambridge University Press. 20s.
- Lommel, E.** Nature of Light: with A General Account of Physical Optics. 7th edn. Cr. 8vo. Pp. 369. 1904. Kegan Paul. 7s. 6d.
- Maclaurin, R. C.** The Theory of Light. Demy 8vo. Pp. 334. 1908. Cambridge University Press. 12s. 6d.
- Mallik, D. N.** Optical Theories. Demy 8vo. Pp. 181. 1917. Cambridge University Press. 7s. 6d.
- Parker, G. W.** Elements of Optics. Cr. 8vo. Pp. 130. 1915. Longmans. 4s. 6d.
- Parkinson, S.** A Treatise on Optics. 4th edn. Cr. 8vo. Pp. 378. 1884. Macmillan. 10s. 6d.
- Percival, A. S.** Optics: A Manual for Students. Cr. 8vo. Pp. 416. 1899. Macmillan. 12s. 6d.
- Geometrical Optics. 8vo. Pp. 140. 1913. Longmans. 7s. 6d.
- Preston, T.** The Theory of Light. 4th edn. edited by W. E. Thrift. 8vo. Pp. 642. 1912. Macmillan. 15s.
- Ramsey, A. S.** A Text-Book of Geometrical Optics. Demy 8vo. Pp. 173. 1914. Bell. 8s. 6d.
- Schuster, Sir A.** An Introduction to the Theory of Optics. 2nd edn. Demy 8vo. Pp. 352. 1909. Arnold. 16s.
- Silberstein, L.** Elements of the Electromagnetic Theory of Light. Cr. 8vo. Pp. 56. 1918. Longmans. 4s. 6d.
- Simplified Method of Tracing Rays through any Optical System of Lenses, Prisms, and Mirrors. 8vo. Pp. 48. 1918. Longmans. 5s. 6d.
- Stewart, R. W.** Text-Book of Light. (being Vol. 3. of The Tutorial Physics.) 4th edn. 10th imp. Cr. 8vo. Pp. 354. 1919. University Tutorial Press. 6s. 6d.
- The New Matriculation Light. 9th imp. Cr. 8vo. Pp. 290. 1920. University Tutorial Press. 4s. 6d.
- Stokes, Sir G. G.** On Light. The Burnett Lectures. Cr. 8vo. Pp. 364. 1892. Macmillan. 7s. 6d.
- Thompson, S. P.** Light: Visible and Invisible. 2nd edn. Cr. 8vo. Pp. 396. 1919. Macmillan. 8s. 6d.
- Tolkowsky, M.** Diamond Design. A Study of the Reflection and Refraction of Light in a Diamond. Cr. 8vo. Pp. 104. 1920. Spon. 6s. 6d.
- Walker, J.** The Analytical Theory of Light. Roy. 8vo. Pp. 432. 1904. Cambridge University Press. 18s. 6d.
- 1. Physiological Optics and Optical Instruments.**
- Burch, G. J.** Practical Exercises in Physiological Optics. Cr. 8vo. Pp. 164. 1912. Oxford: Clarendon Press. 4s.
- Dictionary of British Scientific Instruments.** Issued by the British Optical Instrument Manufacturer's Association. Demy 8vo. Pp. 348. 1921. Constable. 21s.
- Emsley, H. H., and Swaine, W.** The Theory of Modern Optical Instruments; from the German of A. Gleichen; with an Appendix on Rangefinders. 8vo. Pp. 375. 1918. H. M. Stationery Office. 12s. 6d.
- Fray, J.** The Repairing Optician. A Beginner's Guide to the Optical Workshop. Fcap. 8vo. Pp. 191. 1920. Frowde and Hodder. 8s. 6d.
- Hyatt-Woolf, C.** The Optical Dictionary. An Optical and Ophthalmological Glossary of English Terms &c., Relating to Physical, Physiological and Pathological Optics, etc. Demy 8vo. Pp. 87. 1904. Hattoy Press. 4s.

- Laurance, L.** Simple Calculations for Students of Visual Optics. Demy 8vo. Pp. 72. n.d. Hatton Press. 4s. 6d.
- General and Practical Optics. 3rd edn. Demy 8vo. Pp. 370. 1920. Hatton Press. 21s.
- Visual Optics and Sight Testing. 2nd edn. Demy 8vo. Pp. 432. 1920. Hatton Press. 21s.
- Orford, H.** Modern Optical Instruments. Cr. 8vo. Pp. 100. 1919. Pitman. 4s.
- Rohr, M. Von.** (edited by). Geometrical Investigation of the Formation of Images in Optical Instruments: embodying the results of scientific researches conducted in German Optical Workshops (Forming Vol. I. of 'The Theory of Optical Instruments.'). Translated by R. Kanthack. 8vo. Pp. 636. 1920. H.M.S.O. 45s.
- Steinhell, A., and Voit, E.** Applied Optics: The Computation of Optical Systems. Translated from the German by J. W. French. 2 Vols. Fcap. 4to. Vol. 1. Pp. 161. 1918. Vol. 2. Pp. 207. 1919. Blackie. 15s. per vol.
- Whittaker, E. T.** The Theory of Optical Instruments. 2nd edn. Demy 8vo. Pp. 80. 1915. Cambridge University Press. 3s. 6d.
- Wright, L.** Optical Projection. A Treatise on the use of the Lantern in Exhibition and Scientific Demonstration. 5th edn. Revised by R. S. Wright. 2 parts. Part 1. The Projection of Lantern Slides. Cr. 8vo. Pp. 95. 1920. Longmans. 4s. 6d.
- g. Colour: Spectra.**
- Abney, Sir W. de W.** Researches in Colour Vision and the Trichromatic Theory. 8vo. Pp. 432. 1913. Longmans. 25s.
- Living, G. D., and Dewar, Sir J.** Collected Papers on Spectroscopy. Roy. 8vo. Pp. 582. 1915. Cambridge University Press. 30s.
- Lockyer, Sir J. N.** Studies in Spectrum Analysis. 6th edn. Cr. 8vo. Pp. 270. 1904. Kegan Paul. 8s. 6d.
- Lovibond, J. W.** Light and Colour Theories, and their Relation to Light and Colour Standardization. 8vo. Pp. 90. 1915. Spon. 7s. 6d.
- An Introduction to the Study of Colour Phenomena, explaining a New Theory of Colour based entirely on experimental facts, with applications to scientific and industrial investigations. 8vo. Pp. 48, 10 Plates. 1905. Spon. 7s. 6d.
- Lyman, T.** The Spectroscopy of the Extreme Ultra-Violet. 8vo. Pp. 142. 1914. Longmans. 6s. 6d.
- Mees, C. E. K.** An Atlas of Absorption Spectra. Cr. 8vo. Pp. 85. 1909. Longmans. 6s. 6d.
- Parsons, J. H.** An Introduction to the Study of Colour Vision. Roy. 8vo. Pp. 316. 1915. Cambridge University Press. 12s. 6d.
- Rood, O. N.** Colour: a Text-Book of Modern Chromatics, with Applications to Art and Industry. 5th edn. Cr. 8vo. Pp. 338. 1910. Kegan Paul. 7s. 6d.
- Roscoe, Sir H. E., and Schuster, Sir A.** Spectrum Analysis. 4th edn. 8vo. Pp. 468. 1885. Macmillan. 25s.
- Silberstein, L.** Report on the Quantum Theory of Spectra. Demy 8vo. Pp. 46. 1920. Adam Hilger. 5s.
- Watts, W. M.** An Introduction to the Study of Spectrum Analysis. 8vo. Pp. 336. 1904. Longmans. 12s.
- Zeeman, P.** Researches in Magneto-Optics. 8vo. Pp. 236. 1913. Macmillan. 7s. 6d.
- h. Sound.**
- Barton, E. H.** A Text Book on Sound. 2nd edn. Ex. Cr. 8vo. Pp. 704. 1919. Macmillan. 12s. 6d.

Physics.

Bragg, Sir W. H. *The World of Sound.* Six Lectures delivered before a Juvenile Auditory at the Royal Institution, Christmas, 1919. Cr. 8vo. Pp. 204. 1920. Bell. 6s.

Buck, P. C. *Acoustics for Musicians.* Demy 8vo. Pp. 152. 1918. Oxford: Clarendon Press. 7s. 6d.

Capstick, J. W. *Sound. An Elementary Text-book.* Cr. 8vo. Pp. 404. 1913. Cambridge University Press. 6s.

Catchpool, E. *Text-Book of Sound.* (Being Vol. 1. of *The Tutorial Physics*). 5th edn. 10th imp. Cr. 8vo. Pp. 388. 1919. University Tutorial Press. 6s. 6d.

Dunk, J. L. *Hyperacoustics. Division 1: Simultaneous Tonality.* Large Demy 8vo. Pp. 311. Dent. 9s. 6d.

Gurney, E. *The Power of Sound.* Roy. 8vo. Pp. 559. 1880. Murray. 28s.

Helmholtz, H. L. F. *On the Sensations of Tone as a Physiological Basis for the Theory of Music.* 4th edn. Roy. 8vo. Pp. 596. 1912. Longmans. 30s.

Lamb, H. *The Dynamical Theory of Sound.* Demy 8vo. Pp. 303. 1910. Arnold. 15s.

Rayleigh, Lord. *The Theory of Sound.* Vol. II. 2nd edn. 8vo. Pp. 520. 1896. Macmillan. 15s.

Stewart, R. W. *The New Matriculation Sound.* 7th imp. Cr. 8vo. Pp. 220. 1920. University Tutorial Press. 4s.

Taylor, S. *Sound and Music.* 3rd edn. Ex. Cr. 8vo. Pp. 236. 1896. Macmillan. 10s.

Watt, H. J. *The Foundations of Music.* Roy. 8vo. Pp. 256. 1919. Cambridge University Press. 18s.

Wood, A. *The Physical Basis of Music.* Roy. 16mo. Pp. 163. 1913. Cambridge University Press. 2s. 6d.

i. Properties of Matter.

De Villamil, R. *Motions of Liquids.* 8vo. Pp. 224. 1914. Spon. 8s. 6d.

Fleming, J. A. *Waves and Ripples in Water, Air, and Æther.* 3rd edn. Cr. 8vo. Pp. 299. 1919. S.P.C.K. 7s. 6d.

Maxwell, J. C. *Matter and Motion, with Notes and Appendices by Sir J. Larmor.* Cr. 8vo. Pp. 178. 1920. S.P.C.K. 5s.

Le Bon, G. *The Evolution of Matter.* Translated by F. Legge. Cr. 8vo. Scott Pub. Co. 6s.

Searle, G. F. C. *Experimental Harmonic Motion. A Manual for the Laboratory.* Demy 8vo. Pp. 102. 1915. Cambridge University Press. 6s.

Soddy, F. *Matter and Energy.* Fcap. 8vo. Pp. 256. 1912. Williams and Norgate. 2s. 6d.

Wagstaff, C. J. L. *Properties of Matter (being Vol. 5 of *The Tutorial Physics*).* 3rd edn. 7th imp. Cr. 8vo. Pp. 287. 1920. University Tutorial Press. 5s.

j. Molecular Physics.

Cox, J. *Beyond the Atom.* Roy. 16mo. Pp. 151. 1913. Cambridge University Press. 2s. 6d.

Crowther, J. A. *Molecular Physics.* 2nd edn. Cr. 8vo. Pp. 198. 1919. Churchill. 6s.

— *Ions, Electrons and Ionizing Radiations.* Demy 8vo. Pp. 288. 1919. Arnold. 12s. 6d.

Lodge, Sir G. J. *Electrons: The Nature and Properties of Negative Electricity.* 5th edn. Demy 8vo. Pp. 230. 1919. Bell. 8s. 6d.

Mercer, J. E. *Some Wonders of Matter. A Popular Introduction to the Study of the Atom, Electrons, Radium, etc.* Large Cr. 8vo. Pp. 192. 1919. S.P.C.K. 5s.

Perrin, J. *Atoms.* Translated from the French by D. L. Hammick. 2nd imp. Demy 8vo. Pp. 226. 1920. Constable. 9s.

Richardson, O. W. *The Electron Theory of Matter.* 2nd edn. Demy 8vo. Pp. 631. 1916. Cambridge University Press. 21s.

Thomson, Sir J. J. *The Corpuscular Theory of Matter.* 2nd imp. Demy 8vo. Pp. 178. 1907. Constable. 7s. 6d.

— *Electricity and Matter.* Cr. 8vo. Pp. 170. 1912. Constable. 9s.

iii. RELATIVITY.

Carr, H. W. *The General Principle of Relativity in its Philosophical and Historical Aspect.* Cr. 8vo. Pp. 175. 1920. Macmillan. 7s. 6d.

Conway, A. W. *Relativity.* Demy 8vo. Pp. 43. 1915. Bell. 2s.

Cunningham, E. *Relativity, the Electron Theory and Gravitation.* 2nd edition. Demy 8vo. Pp. 154. 1921. Longmans. 10s. 6d.

— *The Principle of Relativity.* Demy 8vo. Pp. 235. 1914. Cambridge University Press. 12s.

Eddington, A. S. *Space, Time, and Gravitation. An Outline of the General Relativity Theory.* 2nd imp. Demy 8vo. Pp. 226. (1920) 1921. Cambridge University Press. 15s.

— *Report on the Relativity Theory of Gravitation.* 2nd edn. Demy 8vo. 1920. Paper covers, 6s. Cloth, 8s. Physical Society of London (Fleetway Press).

Einstein, A. *Relativity: The Special and the General Theory. A Popular Exposition.* Translated by R. W. Lawson. Cr. 8vo. Pp. 151. 1920. Methuen. 5s.

Freundlich, E. *The Foundations of Einstein's Theory of Gravitation.* Authorised English Translation by H. L. Brose. Preface by A. Einstein. Introduction by H. H. Turner. Pp. 77. 1920. Cambridge University Press. 5s.

Harrow, B. *From Newton to Einstein. Changing Conceptions of the Universe.* 18mo. Pp. 95. sewed. 1920. Constable. 2s. 6d.

Robb, A. A. *A Theory of Time and Space.* Roy. 8vo. Pp. 380. 1914. Cambridge University Press. 15s.

— *The Absolute Relations of Time and Space.* Demy 8vo. Pp. 90. 1921. Cambridge University Press. 5s.

Schlick, M. *Space and Time in Contemporary Physics. An Introduction to the Theory of Relativity and Gravitation.* Rendered into English by H. L. Brose. 8vo. Pp. 99. 1920. Oxford: Clarendon Press. 6s. 6d.

Silberstein, L. *The Theory of Relativity.* 8vo. Pp. 304. 1914. Macmillan. 12s. 6d.

Slosson, E. E. *Easy Lessons in Einstein. A Discussion of the more intelligible features of the Theory of Relativity.* Cr. 8vo. Pp. 136. 1920. Routledge. 5s.

iv. CURRENT IN GASES.

Thomson, Sir J. J. *Conduction of Electricity through Gases.* Pp. 686. 2nd edn. Demy 8vo. (at present reprinting). Cambridge University Press. 16s.

Townsend, J. S. *Electricity in Gases.* 8vo. Pp. 512. 1914. Oxford: Clarendon Press. 16s.

— *The Theory of Ionization of Gases by Collision.* Cr. 8vo. Pp. 100. 1910. Constable. 4s. 6d.

Wilson, H. A. *The Electrical Property of Flames and of Incandescent Solids.* Cr. 8vo. Pp. 120. 1912. University of London Press. 6s.

v. X-RAYS AND RADIO- ACTIVITY.

Addyman, F. T. *Practical X-Ray Work.* Demy 8vo. Pp. 207. 1901. Scott, Greenwood. 12s. 6d.

Arthur, D., and Muir, J. A. *Manual of Practical X-Ray Work.* Demy 8vo. Pp. 351. 1919. Heinemann. 12s. 6d.

Baker, T. T. *Radiographic Technique.* Demy 8vo. Pp. 208. 1921. Constable. 15s.

- Bragg, Sir W. H.** *Studies in Radio-activity.* 8vo. Pp. 208. 1912. Macmillan. 6s. 6d.
- Bruce, W. I.** *A System of Radiography: with an Atlas of the Normal.* Folio. Pp. 122. 1907. Lewis. 15s.
- Bythell, W. J. S., and Barclay, A. E.** *X-Ray Diagnosis and Treatment.* Demy 8vo. Pp. 159. 1912. Frowde and Hodder. 17s.
- Colwell, H. A., and Russ, S.** *Radium, X-Rays, and the Living Cell. With Physical Introduction.* New imp. Large 8vo. Pp. 324. 1914. Bell. 15s.
- The Examination of Materials by X-Rays.** *A General Discussion.* Faraday Society and Röntgen Society Report, 1919. Demy 8vo. Pp. 152. 1919. Faraday Society. 13s. 6d.
- The Present Position of the Theory of Ionisation.** Faraday Society Report, 1919. Demy 8vo. Pp. 178. 1919. Faraday Society. 12s. 6d.
- Hyndman, H. H. F.** *Radiation: An Elementary Treatise on Electromagnetic Radiation and on Röntgen and Cathode Rays.* Cr. 8vo. Pp. 307. 1898. Allen and Unwin. 6s.
- Joly, J.** *Radio-Activity and Geology.* Cr. 8vo. Pp. 303. 1909. Constable. 10s.
- Kaye, G. W. C.** *X-Rays: An Introduction to the Study of Röntgen Rays.* 3rd edn. 8vo. Pp. 308. 1918. Longmans. 9s. 6d.
- Knox, A. V.** *General Practice and X-Rays. A Handbook for the General Practitioner and Student, with Chapters on the Production of X-Rays and Instrumentation by R. Knox.* Cr. 8vo. Pp. 228. 1921. Black. 15s.
- Knox, R.** *Radiography and Radio-Therapeutics.* 3rd edn. Super Roy. 8vo. 1919. Vol. I. *Radiography.* Pp. 384. 35s. Vol. II. *Radio-Therapeutics.* Pp. 222. 18s. Black.
- Makower, W.** *The Radio-active Substances: their Properties and Behaviour.* Cr. 8vo. Pp. 313. 1908. Kegan Paul. 7s. 6d.
- **and Geiger, H.** *Practical Measurements in Radioactivity.* Cr. 8vo. Pp. 161. 1912. Longmans. 6s. 6d.
- Morton, E. R.** *Text-Book of Radiology (X-Rays).* 2nd edn. Demy 8vo. Pp. 280. 1918. Kimpton. 10s. 6d.
- Mowat, H.** *X-Rays. How to Produce and Interpret Them.* Demy 8vo. Pp. 216. 1915. Frowde and Hodder. 9s. 6d.
- Pilon, H.** *The Coolidge Tube: its Scientific Applications, Medical and Industrial. Authorised Translation.* Cr. 8vo. Pp. 98. 1920. Baillière. 7s. 6d.
- Raffety, C. W.** *An Introduction to the Science of Radio-Activity.* Cr. 8vo. Pp. 220. 1909. Longmans. 6s.
- Rayleigh, Lord.** *The Becquerel Rays and the Properties of Radium.* 2nd edn. Demy 8vo. Pp. 221. 1906. Arnold. 10s.
- Richardson, O. W.** *The Emission of Electricity from Hot Bodies.* New Edition in the press. Longmans.
- Rutherford, Sir E.** *Radio-active Substances and their Radiations.* Demy 8vo. Pp. 699. 1913. Cambridge University Press. 17s. 6d.
- Soddy, F.** *The Interpretation of Radium and the Structure of the Atom.* 4th edn. Demy 8vo. Pp. 276. 1920. Murray. 15s.
- *Radio Activity.* Demy 8vo. Pp. 224. 1904. Benn Bros. 5s.
- Turner, D.** *Radium, its Physics and Therapeutics.* 2nd edn. Cr. 8vo. Pp. 184. 1914. Baillière. 5s.

vi. MAGNETISM AND ELECTRICITY.

- Allanach, W.** Elementary Experimental Magnetism and Electricity. Cr. 8vo. Pp. 284. 1920. Longmans. 5s.
- Barlow, C. W. C.** Mathematical Physics, Magnetism and Electricity. Cr. 8vo. Pp. 320. 1913. University Tutorial Press. 6s. 6d.
- Brooks, E. E., and Poyser, A. W.** Magnetism and Electricity: A Manual for Students in Advanced Classes. 2nd edn. Cr. 8vo. New imp. Pp. 656. (1914). 1918. Longmans. 12s. 6d.
- Campbell, N. R.** Modern Electrical Theory. 2nd edn. Demy 8vo. Pp. 412. 1913. Cambridge University Press. 16s.
- Cavendish, H.** Electrical Researches: Written 1771-81. Edited by J. Clerk Maxwell. Demy 8vo. Pp. 479. 1879. Cambridge University Press. 18s.
- Cumming, L.** An Introduction to the Theory of Electricity. 4th edn. Cr. 8vo. Pp. 362. 1894. Macmillan. 8s. 6d.
- Curry, C. E.** Theory of Electricity and Magnetism. Cr. 8vo. Pp. 458. 1897. Macmillan. 8s. 6d.
- Emtage, W. T. A.** The Mathematical Theory of Electricity and Magnetism. 2nd edn. Cr. 8vo. Pp. 236. 1894. Oxford: Clarendon Press. 7s. 6d.
- Ewing, Sir J. A.** Magnetic Induction in Iron and Other Metals. 3rd edn. Demy 8vo. Pp. 411. 1900. Benn Bros. 12s. 6d.
- Finn, M.** Experimental Electricity and Magnetism. Cr. 8vo. Pp. 436. 1915. Bell. 5s.
- Fitzgerald, G. F.** The Scientific Writings of the late George Francis Fitzgerald. Collected and Edited with an Historical Introduction by Sir J. Larmor. 8vo. Pp. 640. 1902. Longmans. 15s. 6d.
- Fleming, J. A.** Magnets and Electric Currents. 3rd edn. Cr. 8vo. Pp. 417. 1914. Spon. 6s.
- Foster, G. C., and Porter, A. W.** Elementary Treatise on Electricity and Magnetism. Founded on Joubert's "Traité élémentaire d'Électricité." 3rd edn. 8vo. Pp. 653. 1913. Longmans. 12s.
- Fournier d'Albe, E. E.** The Electron Theory: a Popular Introduction to the New Theory of Electricity and Magnetism. 3rd edn. Cr. 8vo. Pp. 346. 1918. Longmans. 7s. 6d.
- Glazebrook, Sir R. T.** Electricity and Magnetism. An Elementary Text-book. Cr. 8vo. Pp. 448. 1904. Cambridge University Press. 10s.
- Gray, A.** A Treatise on Magnetism and Electricity. 8vo. Pp. 498. 1898. Macmillan. 14s.
- Hadley, H. E.** Magnetism and Electricity for Students. Gl. 8vo. Pp. 596. 1920. Macmillan. 7s.
- Magnetism and Electricity for Beginners. New imp. Gl. 8vo. Pp. 376. 1920. Macmillan. 3s. 6d.
- Hansel, C. W.** Introductory Electricity and Magnetism. Cr. 8vo. Pp. 390. 1919. Heinemann. 4s. 6d.
- Heaviside, O.** Electromagnetic Theory. 3 Vols. Demy 8vo. 1893. Vol. 1. Pp. 488. 15s. Vol. 2. Pp. 563. 15s. Vol. 3. Pp. 519. 26s. Benn Bros.
- Hedges, K.** Modern Lightning Conductors. 2nd edn. Med. 8vo. Pp. 125. 1910. Crosby Lockwood. 7s. 6d.
- Hertz, H.** Miscellaneous Papers. Translated by D. E. Jones and G. A. Schott. 8vo. Pp. 366. Macmillan. 12s. 6d.
- Electric Waves. Translated by D. E. Jones. 8vo. Pp. 298. 1900. Macmillan. 12s. 6d.
- Hutchinson, R. W.** Advanced Text-book of Magnetism and Electricity. 2 Vols. 2nd edn. Cr. 8vo. 1920. Vol. 1. Magnetism and Electricity. Pp. 394. Vol. 2. Electrodynamics. Pp. 530. University Tutorial Press. 12s. 6d. the 2 vols.

- Hutchinson, R. W.** Intermediate Text Book of Magnetism and Electricity. Cr. 8vo. Pp. 628. 1920. University Tutorial Press. 9s. 6d.
- Jamieson, A.** A Practical Elementary Manual of Magnetism and Electricity, specially arranged for the use of Science and Engineering Students. Revised by E. S. Andrews. 11th edn. Cr. 8vo. 1p. 386. 1920. Griffin. 5s.
- Jeans, J. H.** The Mathematical Theory of Electricity and Magnetism. 3rd edn. Roy. 8vo. Pp. 588. 1915. Cambridge University Press. 24s.
- Jude, R. H.** The School Magnetism and Electricity: based on Potential and Potential Gradient. 4th imp. Cr. 8vo. Pp. 408. 1914. University Tutorial Press. 5s.
- and **Satterly, J.** Matriculation Magnetism and Electricity. 6th imp. Cr. 8vo. Pp. 423. 1920. University Tutorial Press. 6s. 6d.
- Lamb, C. G.** Notes on Magnetism for the Use of Students of Electrical Engineering. Demy 8vo. Pp. 104. 1919. Cambridge University Press. * 5s.
- Livens, G. H.** The Theory of Electricity. Roy. 8vo. Pp. 726. 1918. Cambridge University Press. 31s. 6d.
- Lodge, Sir O. J.** Lightning Conductors and Lightning Guards. Cr. 8vo. Pp. 543. 1892. Pitman. 15s.
- Macdonald, H. M.** Electric Waves. Demy 8vo. Pp. 209. 1902. Cambridge University Press. 11s.
- Maxwell, J. C.** Treatise on Electricity and Magnetism, revised by Sir J. J. Thomson. 2 Vols. 3rd edn. 8vo. 1904. Vol. 1. Electrostatics; Electrodynamics. Pp. 538. Vol. 2. Magnetism; Electromagnetism. Pp. 524. Oxford: Clarendon Press. 28s.
- **Elementary Treatise on Electricity.** Edited by W. Garnett. 8vo. Pp. 224. 1881. Oxford: Clarendon Press. 7s. 6d.
- Maycock, W. P.** First Book of Electricity and Magnetism. 4th edn. Cr. 8vo. Pp. 351. 1913. Pitman. 6s.
- Palmer, A. R.** Magnetic Measurements and Experiments. Cr. 8vo. Pp. 132. 1918. Murby. 2s.
- Ogley, D. H.** An Elementary Course on Practical Applied Electricity and Magnetism. Cr. 8vo. Pp. 146. 1911. Longmans. 3s. 6d.
- Penrose, H. E.** Magnetism and Electricity for Home Study. Cr. 8vo. Pp. 515. 1918. Wireless Press. 6s.
- Pidduck, F. B.** A Treatise on Electricity. Demy 8vo. Pp. 646. 1916. Cambridge University Press. 16s.
- Poyser, A. W.** Magnetism and Electricity: Stage 1. Cr. 8vo. Pp. 286. 1920. Longmans. 4s.
- **Advanced Magnetism and Electricity.** Cr. 8vo. Pp. 474. 1919. Longmans. 7s. 6d.
- Richardson, S. S.** Magnetism and Electricity, and the Principles of Electrical Measurement. Cr. 8vo. Pp. 598. 1914. Blackie. 6s.
- Sanderson, F. W.** Electricity and Magnetism for beginners. New imp. Gl. 8vo. Pp. 254. 1914. Macmillan. 3s.
- Schott, G. A.** Electromagnetic Radiation and the Mechanical Reactions arising from it. Roy. 8vo. Pp. 352. 1912. Cambridge University Press. 21s.
- Slingo, Sir W., and Brooker, A.** Problems and Solutions in Elementary Electricity and Magnetism. 5th imp. Cr. 8vo. Pp. 170. 1914. Longmans. 2s. 6d.
- Starling, S. G.** Electricity and Magnetism for Advanced Students. 4th edn. Cr. 8vo. Pp. 598. 1920. Longmans. 12s. 6d.
- Stewart, R. W.** Higher Text-Book of Magnetism and Electricity. (Being Vol. 4 of The Tutorial Physics). 2nd edn. 6th imp. Cr. 8vo. Pp. 758. 1914. University Tutorial Press. 9s. 6d.

Thompson, S. P. *Elementary Lessons in Electricity and Magnetism.* Fcap. 8vo. Pp. 760. 1919. Macmillan. 5s. 6d.

Thomson, Sir J. J. *Elements of the Mathematical Theory of Electricity and Magnetism.* 5th edn. Roy. 8vo. Pp. 420. 1921. Cambridge University Press. 25s.

Tunzelmann, G. W. de. *Electrical Theory and the Problem of the Universe.* Large Cr. 8vo. Pp. 686. 1910. Griffin. 18s.

Whetham, W. C. D. *The Theory of Experimental Electricity.* 2nd edn. Demy 8vo. Pp. 346. 1912. Cambridge University Press. 10s. 6d.

Walker, G. T. *Outlines of the Theory of Electromagnetism.* Demy 8vo. Pp. 60. 1910. Cambridge University Press. 5s.

— *Aberration and some other Problems connected with the Electromagnetic Field.* Demy 8vo. Pp. 112. 1900. Cambridge University Press. 7s.

ELECTRICAL ENGINEERING.

1. GENERAL TREATISES.

- Alexander, J. H.** Elementary Electrical Engineering in Theory and Practice. 4th edn. Cr. 8vo. Pp. 220. 1919. Crosby Lockwood. 5s.
- Ayrton, W. E., and Mather, T.** Practical Electricity. A Laboratory and Lecture Course for First Year Students, 4th edn. Demy 8vo. Pp. 539. 1919. Cassell. 12s.
- Baillie, T. G.** Electrical Engineering. Demy 8vo. Vol. 1. Introductory. Pp. 244. 1915. Cambridge University Press. 5s. 6d.
- Blythe, E.** Machine Drawing for Electrical Engineers. Oblong folio. Pp. 88. 1920. Cambridge University Press. 20s.
- Brown's Marine Electrician for Sea-going Engineers:** With Answers to Board of Trade Questions in Electricity. 3rd edn. Cr. 8vo. Pp. 260. 1920. James Brown. 6s.
- Cooper, W. R.** (edited by). The Electrician Primers. Vol. 1. Theory. 3rd edn. Demy 8vo. Pp. 298. 1917. 7s. 6d. Vol. 2. Electric Traction, Lighting and Power. New edn. in preparation. Vol. 3. Telegraphy, Telephony, Electro-Chemistry, etc. New edn. in preparation. Benn Bros.
- Davidge, H. T., and Hutchinson, R. W.** Technical Electricity. 3rd edn. 8th imp. Cr. 8vo. Pp. 602. 1919. University Tutorial Press. 8s. 6d.
- Institution of Electrical Engineers.** Regulations for the Electrical Equipment of Ships. 16mo. Pp. 86. 1919. Spon. 3s. 6d.
- Fowler's Electrical Engineers' Pocket Book,** 1921. Edited by W. H. Fowler. 18mo. Pp. 550. January, 1921. Scientific Pub. Co. 3s.
- Garcke, E.** (edited by). Manual of Electrical Undertakings and Directory of Officials, 1919-20. Vol. 23. 8vo. Pp. 1,551. Apl., 1920. Electrical Press. 27s. 6d.
- Gibson, C. R.** Electricity of To-Day. Cr. 8vo. Pp. 347. 1915. Seeley. 7s. 6d.
- Gill, J. F., and Teago, F. J.** Examples in Electrical Engineering. Cr. 8vo. Pp. 173. 1919. Arnold. 7s. 6d.
- Haslam, A. P.** Electricity in Factories and Workshops. Its Cost and Convenience. Large Cr. 8vo. Pp. 328. 1909. Crosby Lockwood. 8s. 6d.
- Ibbetson, W. S.** Practical Electrical Engineering for Elementary Students in Trade and Technical Schools. Cr. 8vo. Pp. 155. 1914. Spon. 5s.
- Kapp, G.** The Principles of Electrical Engineering and their Application. Demy 8vo. Vol. I., Principles. Pp. 368. 1916. Vol. II., Application. Pp. 396. 1919. Arnold. 18s. each vol.
- Electricity. Fcap. 8vo. Pp. 256. 1912. Williams and Norgate. 2s. 6d.
- Kemp, P.** Rudiments of Electrical Engineering. Cr. 8vo. Pp. 263. 1920. Macmillan. 6s.

Electrical Engineering.

- Kennelly, A. E.** *The Application of Hyperbolic Functions to Electrical Engineering Problems.* 2nd edn. Cr. 8vo. Pp. 312. 1917. University of London Press. 7s. 6d.
- Kinzbrunner, C.** *The Diseases of Electrical Machinery: Their Symptoms, Causes and Remedy.* 5th imp. Cr. 8vo. Pp. 76. 1920. Harper. 1s. 9d.
- *Construction of Electric Machines and Apparatus. Part 1.* (Consisting of 10 plates). 1906. Harper. 2s. 6d.
- Larkman, A. E., and A. H.** *Marine Electrician for Sea-Going Engineers.* Cr. 8vo. Pp. 260. 1920. J. Brown. 6s.
- Maclean, M.** *Electricity and Its Practical Applications.* Demy 8vo. Pp. 492. 1918. Blackie. 12s. 6d.
- Meares, J. W., and Neale, R. E.** *Electrical Engineering Practice. A Practical Treatise for Civil, Mechanical, and Electrical Engineers.* 3rd edn. 8vo. Pp. 663. 1917. Spon. 25s.
- Mechanical World Electrical Pocket Book,** 1921. Cr. 8vo. Pp. 377. Jan., 1921. Emmott. 2s.
- Molesworth, W. H.** *Spon's Electrical Pocket Book. A Reference Book of General Electrical Information, Formulæ, and Tables for Practical Engineers.* Fcap. 8vo. Pp. 490. 1920. Spon. 8s. 6d.
- Munro, J., and Jamieson, A.** *A Pocket-book of Electrical Rules and Tables for the use of Electricians and Engineers.* 21st edn. Pocket size. Pp. 840. 1920. Griffin. 7s. 6d.
- Murdoch, W. H. F.** *The Ventilation of Electrical Machinery.* Cr. 8vo. Pp. 80. 1911. Pitman. 3s. 6d.
- Neale, R. E.** *Electricity: Its Production and Applications.* Cr. 8vo. Pp. 144. 1920. Pitman. 3s.
- Palmer, A. R.** *Electrical Experiments.* Cr. 8vo. Pp. 125. 1918. Murby. 2s.
- Parr, G. D. A.** *Electrical Engineering in Theory and Practice.* 8vo. Pp. 456. 1906. Macmillan. 15s.
- Practical Electrician's Pocket Book, The,** 1921. Pocket Size. Pp. 594. Meh., 1921. Rentell. 3s.
- Practical Engineer Electrical Pocket Book,** 1921. 18mo. Pp. 720. 1921. Technical Publishing Co. 2s.
- Reports of the Committee on Electrical Standards appointed by the British Association for the Advancement of Science.** Demy 8vo. Pp. 812. 1913. Cambridge University Press. 12s. 6d.
- Roberts, J.** *Laboratory Work in Electrical Engineering (Preliminary Grade).* Demy 8vo. Pp. 228. 1906. Harper. 6s.
- Rosenberg, E.** *Electrical Engineering: An Elementary Text-Book.* Translated by W. W. Haldane Gee, and C. Kinzbrunner. 7th edn. (reprinted). Demy 8vo. Pp. 336. 1918. Harper. 7s. 6d.
- Sewell, T.** *The Elements of Electrical Engineering. A First Course for Students.* 7th edn. Large Cr. 8vo. Pp. 465. 1920. Crosby Lockwood. 8s. 6d.
- Starling, S. G.** *An Introduction to Technical Electricity.* Cr. 8vo. Pp. 193. 1921. Macmillan. 3s. 6d.
- Still, A.** *Polyphase Currents. A Practical Treatise on Polyphase Working for Electrical Engineers.* 2nd edn. Cr. 8vo. Pp. 300. 1914. Pitman. 7s. 6d.
- Thomälen, A.** *A Text Book of Electrical Engineering.* Translated from the German by G. W. O. Howe. 5th edn. Demy 8vo. Pp. 492. 1920. Arnold. 28s.
- Thompson, S. P.** *Electrical Tables and Memoranda.* 2nd edn. 64mo. Pp. 144. 1920. Spon. 2s.
- Thompson, T.** *The Engineering Enquiry: Electrical and Mechanical. A Pocket Book for Engineers.* Small Cr. 8vo. Pp. 367. 1920. Arrowsmith. 7s. 6d.

Electrical Engineering.

Turner, H. W., and Hobart, H. M. Insulation of Electrical Machines. Med. 8vo. Pp. 297. 1918. Pitman. 21s.

Walmsley, R. M. Electricity in the Service of Man. A Popular and Practical Treatise on the Applications of Electricity to Modern Life. Roy. 8vo. Vol. 1. The History and Principles of Electrical Science. Pp. 840. 1911. Vol. 2. Part 1. The Technology of Electricity. Pp. 692. 1913. Vol. 2. Part 2. The Technology of Electricity. Pp. 724. 1919. Cassell. 15s. each.

Whittaker's Electrical Engineers' Pocket Book. Edited by R. E. Neale. 4th edn. Pocket size. Pp. 682. 1920. Pitman. 10s. 6d.

Young, A. P. The Elements of Electro-Technics. Cr. 8vo. Pp. 356. 1920. Pitman. 7s. 6d.

ii. ELECTRIC GENERATION : POWER PLANT.

Gay, A., and Yeaman, C. H. Central Station Electricity Supply. 2nd edn. Cr. 8vo. Pp. 497. 1906. Pitman. 12s. 6d.

Klingenberg, G. Large Electric Power Stations: Their Design and Construction. Translated from the German. Cr. 4to. Pp. 276. 1919. Crosby Lockwood. 28s.

Wordingham, C. H. Central Electrical Stations: Their Design, Organisation, and Management. 2nd edn. Large 8vo. Pp. 512. Griffin. 30s.

iii. SWITCHBOARDS AND ACCESSORIES.

Collis, A. G. High and Low Tension Switchgear Design. Demy 8vo. Pp. 232. 1913. Constable. 12s.
— Switchgear and the Control of Electric Light and Power Circuits. Fcap. 8vo. Pp. 85. 1913. Constable. 1s. 6d.

Connan, J. C. Switchboard Measuring Instruments for Continuous and Polyphase Systems. 8vo. Pp. 158. 1914. Spon. 5s.

Garrard, C. Electric Switch and Controlling Gear. 2nd edn. Demy 8vo. Pp. 663. 1920. Benn Bros. 25s.

Poole, H. E. High Tension Switchgear. Describing the Design, Construction, and Functions of the leading types of Switchgear used in the control of High-Tension Electrical Plant. Fcap. 8vo. Pp. 126. 1921. Pitman. 2s. 6d.

iv. ELECTRIC GENERATORS AND MOTORS: GENERAL.

Bottone, A. E. How to Manage the Dynamo. 6th edn. Pocket size. 1912. Pitman. 2s.

— **S. R.** The Dynamo: How Made and How Used. 13th edn. Cr. 8vo. Pp. 167. 1904. Allen & Unwin. 2s. 6d.

— **Electro-Motors: How Made and How Used.** 7th edn. revised by C. Sylvester. Cr. 8vo. Pp. 176. 1919. Pitman. 4s. 6d.

Bowker, W. R. Dynamo, Motor, and Switchboard Circuits for Electrical Engineers. 2nd edn. Med. 8vo. Pp. 180. 1908. Crosby Lockwood. 8s. 6d.

Broadbent, F. Dynamo and Motor Attendants and Their Machines. 10th edn. Cr. 8vo. Pp. 227. 1921. Rentell. 4s. 6d.

Broadfoot, S. K. Motors, Secondary Batteries, Measuring Instruments and Switchgear. Fcap. 8vo. Pp. 96. 1919. Constable. 2s.

Hawkins, C. C., and Wallis, F. The Dynamo: Its Theory, Design and Manufacture. 5th edn. 2 vols. Med. 8vo. Pp. 542., 590. 1909. Pitman. 12s. 6d. each.

Hobart, H. M. Electric-Motors, Continuous, Polyphase, and Single-Phase Motors: Their Theory and Construction. 3rd edn. in preparation. Pitman.

— **and Ellis, A. G.** Armature Construction. A Practical Treatise for Electrical Engineers. Med. 8vo. Pp. 348. 1918. Pitman. 25s.

Electrical Engineering.

- Ibbetson, W. S.** Motor and Dynamo Control: Theory and Practice. Demy 8vo. Pp. 496. 1920. Spon. 21s.
- Livingstone, R.** The Mechanical Design and Construction of Generators. Demy 8vo. Pp. 436. 1914. Benn Bros. 11s.
- The Mechanical Design and Construction of Commutators. Demy 8vo. Pp. 97. 1907. Benn Bros. 7s. 6d.
- Lummis-Paterson, G. W.** The Management of Dynamos. 6th imp. Pp. 300. 1908. Crosby Lockwood. 6s.
- Maycock, W. P.** A Small Book on Electric Motors for Continuous and Alternating Currents. Cr. 8vo. Pp. 192. 1918. Pitman. 6s.
- Sewell, T.** Alternating and Direct-Current Dynamos and their Construction. New imp. Large Cr. 8vo. Pp. 328. 1920. Crosby Lockwood. 8s. 6d.
- Sylvester, C.** Armature Winding. A Practical Handbook for Students, Armature Winders, and Engineers in Charge. Cr. 8vo. Pp. 183. 1920. Rentell. 7s. 6d.
- Wood, L. E.** A Practical Treatise on Three-Phase Induction Motors. Cr. 8vo. Pp. 134. 1921. "The Electrical Review" Office. 6s. 6d.
- Thompson, S. P.** Dynamo-Electric Machinery. A Manual for Students of Electro-technics. 7th edn. 8vo. Vol. 1. Continuous-Current Machines. New edn., by M. Walker, in preparation. Vol. 2. Alternating-Current Machinery. Pp. 900. 1905. 35s. Spon.
- Design of Dynamos (Continuous Current Generators). 8vo. Pp. 243. 1903. Spon. 12s. 6d.
- Walker, M.** Specification and Design of Dynamo-Electric Machinery. 3rd imp. Roy. 8vo. Pp. 668. 1920. Longmans. 36s.
- Direct Current Dynamo Electric Machinery.** 2nd edn. Cr. 8vo. Pp. 128. 1914. Cambridge University Press. 4s. 3d.
- Barr, J. R.** Principles of Direct-Current Electrical Engineering. Med. 8vo. Pp. 559. 1908. Pitman. 15s.
- Bate, A. H.** Principles of Electric Power (Continuous Current) for Mechanical Engineers. Cr. 8vo. Pp. 204. 1914. Spon. 6s.
- Case, J.** The Theory of Direct-Current Dynamos and Motors. Demy 8vo. Pp. 210. 1912. Heffer. 15s.
- Cramp, W.** Continuous Current Machine Design. Demy 8vo. Pp. 260. 1910. Harper. 7s.
- Denton, F. M.** Elementary Principles of Continuous-Current Armature Winding. Fcap. 8vo. Pp. 112. 1921. Pitman. 2s. 6d.
- Hay, A.** An Introductory Course of Continuous Current Engineering. 2nd edn. Demy 8vo. Pp. 372. 1919. Constable. 9s. 6d.
- Hobart, H. M.** Elementary Principles of Continuous-Current Dynamo Design. Med. 8vo. Pp. 220. 1907. Pitman. 10s. 6d.
- Kelsey, W. R.** Continuous Current Dynamos and Motors, and their Control. 2nd edn. Cr. 8vo. Pp. 346. 1919. Technical Pub. Co. 10s.
- MacCall, W. T.** Continuous-Current Electrical Engineering. 2nd edn. Demy 8vo. Pp. 474. University Tutorial Press. 13s. 6d.
- Maycock, W. P.** Continuous-Current Motors and Control Apparatus. Cr. 8vo. Pp. 331. 1917. Pitman. 7s. 6d.
- Smith, S. P.** Notes on Theory and Design of Continuous-Current Machines. 2nd edn. Demy 8vo. Pp. 67. 1920. Benn Bros. 5s.

v. CONTINUOUS CURRENT, AND MACHINERY.

Ashford, C. E., and Kempton, E. W. E. Elementary Theory of

vi. ALTERNATING CURRENT, AND MACHINERY.

Barr, J. R., and Archibald, R. D. The Design of Alternating-Current

Electrical Engineering.

- Machinery.** Med. 8vo. Pp. 496. 1913. Pitman. 30s.
- Biedermann, E. A.** The Estimation of the Dispersion Co-efficient of Three-Phase Induction Motors and its Application to their Design. Demy 8vo. Pp. 58. 1916. Benn Bros. 2s. 6d.
- Cramp, W., and Smith, C. F.** Vectors and Vector Diagrams, applied to the Alternating Current Circuit. 8vo. Pp. 268. 1909. Longmans. 9s.
- Crapper, E. H.** Arithmetic of Alternating Currents for Engineers and Students. Cr. 8vo. Pp. 208. 1915. Pitman. 4s. 6d.
- Creedy, F.** Electric Mechanism. Part 1. Single-Phase Commutator Motors. Demy 8vo. Pp. 123. 1913. Constable. 7s. 6d.
- Drysdale, C. V.** The Foundations of Alternate Current Theory. Demy 8vo. Pp. 312. 1910. Arnold. 10s. 6d.
- Ellis, A. G.** Elementary Principles of Alternating-Current Dynamo Design. Demy 8vo. Pp. 304. 1910. Blackie. 10s.
- Frith, J.** Alternating Current Machine Design. Demy 8vo. Pp. 131. 1912. Harper. 6s.
- Hawkins, C. C., Smith, S. P., and Neville, S.** Papers on the Design of Alternating-Current Machinery. Demy 8vo. Pp. 407. 1919. Pitman. 21s.
- Hay, A.** Alternating Currents; Their Theory, Generation and Transformation. 4th edn. (reprinted) Demy 8vo. Pp. 393. 1919. Harper. 7s. 6d.
- James, W. H. N.** Alternating Currents in Theory and Practice. Demy 8vo. Pp. 354. 1916. Cambridge University Press. 16s.
- Johnson, V. E.** Modern High Speed Influence Machines: their Principles, Construction, and Applications to Radiography, Radiotelegraphy, Spark Photography, Electro-Therapeutics, etc. Demy 8vo. Pp. 290. 1921. Spon. 14s.
- Kemp, P.** Alternating-Current Electrical Engineering. 8vo. Pp. 505. 1918. Macmillan. 17s.
- Kempe, H. R.** Alternating Currents: Their Elements Explained. Cr. 8vo. Pp. 92. 1916. Crosby Lockwood. 3s. 6d.
- Larner, E. T.** The Principles of Alternating Currents. Cr. 8vo. Pp. 144. 1908. Crosby Lockwood. 4s. 6d.
- Maycock, W. P.** Alternating-Current Work. An Introductory Book for Engineers and Students. 2nd edn. Cr. 8vo. Pp. 428. 1917. Pitman. 10s. 6d.
- Rhodes, W. G.** A Primer on Alternating Currents. Cr. 8vo. Pp. 154. 1912. Longmans. 3s. 6d.
- An Elementary Treatise on Alternating Currents. 8vo. Pp. 224. 1902. Longmans. 9s.
- Russell, A.** A Treatise on the Theory of Alternating Currents. 2 Vols. 2nd edn. Demy 8vo. Vol. 1. Pp. 548. 1914. Vol. 2. Pp. 579. 1916. Cambridge University Press. 18s. each.
- Smith, C. F.** Practical Alternating Currents and Alternating-Current Testing. 8th edn. Demy 8vo. Pp. 476. 1919. Scientific Pub. Co. 8s.

vii. TRANSFORMERS.

- Avery, A. H.** Auto-Transformer Design. A Practical Hand-book for manufacturers, contractors, and wiremen. 8vo. Pp. 60. 1909. Spon. 5s.
- Bohle, H., and Robertson, D.** Transformers: A Treatise on the Theory, Construction, Design, and Uses of Transformers, Auto-Transformers, and Choking Coils. Large 8vo. Pp. 370. 1911. Griffin. 25s.
- Denton, F. M.** Notes on Commercial Transformer Design. Demy 8vo. Pp. 57. 1917. Benn Bros. 2s. 6d.

Electrical Engineering.

Fleming, J. A. The Alternate-Current Transformer in Theory and Practice. 2 Vols. 3rd edn. Demy 8vo. 1900. Vol. 1. The Induction of Electric Currents. Pp. 628. Vol. 2. The Utilisation of Induced Currents. Pp. 606. Benn Bros. 15s. each.

Kapp, G. Transformers for Single- and Multi-phase Currents. A Treatise on their Theory, Construction and Use. 2nd edn. Med. 8vo. Pp. 363. 1908. Pitman. 12s. 6d.

Painton, E. T. Small Single-Phase Transformers. Pott 8vo. Pp. 105. 1921. Pitman. 2s. 6d.

Sylvester, C. Rotary Converters. Cr. 8vo. Pp. 59. 1920. Rentell. 2s. 6d.

viii. TRANSMISSION.

Brew, W. Three-Phase Transmission. 2nd edn. Demy 8vo. Pp. 190. 1914. Crosby Lockwood. 9s.

Carter, T. Balancers for Three-wire Continuous-current Systems. Demy 8vo. Pp. 98. 1917. Benn Bros. 4s.

Coyle, D., and Howe, F. J. O. Electric Cables: Their Construction and Cost. Cr. 8vo. Pp. 474. 1919. Spon. 18s.

Dick, J. R., and Fernie, F. Electric Mains and Distributing Systems. 2nd edn. Demy 8vo. Pp. 476. 1919. Benn Bros. 18s.

Fleming, A. P. M., and Johnson, R. Insulation and Design of Electrical Windings. Med. 8vo. Pp. 232. 1913. Longmans. 9s.

Kapper, F. Overhead Transmission Lines and Distributing Circuits: Their Design and Construction. Cr. 4to. Pp. 300. 1915. Constable. 16s.

La Cour, J. L., and Bragstad, O. S. Theory and Calculation of Electric Currents. Translated by S. P. Smith. Med. 8vo. Pp. 494. 1913. Longmans. 18s.

Maycock, W. P. Electric Circuit Theory and Calculations. 2nd edn. Cr. 8vo. Pp. 355. 1918. Pitman. 10s. 6d.

Raymond-Barker, E. Handbook in Cable-break Localisation. Graphic methods. Cr. 8vo. Pp. 68. 1904. "Electrical Review" Office, 2s. 6d.

— Cable Fault Localisation Graphs in Practice. Cr. 8vo. Pp. 68. 1909. "Electrical Review" Office, 2s. 6d.

Russell, A. The Theory of Electric Cables and Networks. 2nd edn. Demy 8vo. Pp. 360. 1920. Constable. 24s.

ix. TESTING.

Allen, R. G. Principles and Practice of Electrical Testing: as applied to Apparatus, Circuits, and Machines. 8vo. Pp. 372. 1919. Longmans. 18s.

Fisher, H. K. C., and Darby, J. C. H. Students' Guide to Submarine Cable Testing. 5th edn. 3rd imp. Demy 8vo. Pp. 252. 1920. Benn Bros. 9s. 6d.

Fleming, J. A. Handbook for the Electrical Laboratory and Testing Room. 2 Vols. Demy 8vo. Vol. 1. Pp. 545. 15s. 6d. Vol. 2. Pp. 630. 16s. 6d. Benn Bros.

Kempe, H. R. Handbook of Electrical Testing. 7th edn. 8vo. Pp. 714. 1908. Spon. 25s.

Kinzbrunner, C. The Testing of Alternating Current Machines in Laboratories and Test-Rooms. Vol. 1. Demy 8vo. Pp. 163. 1907. Harper. 5s.

— The Testing of Continuous Current Machines in Laboratories and Test-Rooms. Demy 8vo. Pp. 336. 1904. Harper. 7s. 6d.

Oulton, L., and Wilson, N. J. Practical Testing of Electrical Machines. 2nd edn. Fcap. 8vo. Pp. 254. 1921. Pitman. 6s.

Parr, G. D. A. Practical Electrical Testing in Physics and Electrical Engineering. 2nd edn. 8vo. Pp. 400. 1917. Longmans. 9s. 6d.

Electrical Engineering.

Parr, G. D. A. *Electrical Engineering Testing. A Practical Work for Second and Third Year Students, Engineers, and others.* 3rd edn. 8vo. Pp. 550. 1907. Chapman & Hall. 11s. 6d.

Raphael, F. C. *Localisation of Faults in Electric Light and Power Mains, with chapters on Insulation Testing.* 3rd edn. Demy 8vo. revised (1916). 1920. Pp. 218. Benn Bros. 12s. 6d.

Smith, C. F. *The Practical Testing of Dynamos and Motors. A Treatise on the Methods and Instruments used in the Testing of Dynamos and Motors.* 7th edn. Demy 8vo. Pp. 322. 1919. Scientific Publishing Co. 6s. 6d.

Wright, J. *Testing and Localising Faults.* Fcap. 8vo. Pp. 88. 1920. Constable. 2s.

Young, J. E. *Electrical Testing for Telegraph Engineers.* 2nd edn. Demy 8vo. Pp. 322. Benn Bros. 12s. 6d.

x. ELECTRICAL MEASUREMENTS AND INSTRUMENTS.

Bottrone, S. R. *Electrical Instrument Making for Amateurs. A Practical Handbook.* 8th edn. Cr. 8vo. Pp. 280. 1920. Pitman. 6s.

Drysdale, G. V., and Jolley, A. C. *Electrical Measuring Instruments: their Design, Construction and Application.* In Preparation. Benn Bros.

Edgcumbe, K. *Industrial Electrical Measuring Instruments.* 2nd edn. Demy 8vo. Pp. 430. 1918. Constable. 16s.

Gerhardi, C. H. W. *Electricity Meters: Their Construction and Management.* 2nd edn. Demy 8vo. Pp. 514. 1917. Benn Bros. 18s.

Hobbs' Arithmetic of Electrical Measurements. 16th edn. revised by A. R. Palmer. Cr. 8vo. Pp. 128. 1919. Murby. 2s.

James, W. H. N., and Sands, D. L. *Elementary Electrical Calculations.* Cr. 8vo. Pp. 224. 1919. Longmans. 5s.

Moreton, H. W. *Electrical Measuring Instruments and Supply Meters.* Cr. 8vo. Pp. 83. 1918. Technical Pub. Co. 2s. 9d.

Murdoch, W. H. F., and Oschwald, U. A. *Electrical Instruments in Theory and Practice.* Cr. 8vo. Pp. 366. 1915. Pitman. 12s. 6d.

Parr, G. D. A. *Electrical Engineering Measuring Instruments for Commercial and Laboratory Purposes.* Demy 8vo. Pp. 328. 1908. Blackie. 10s.

Price, W. A. *The Measurement of Electrical Resistance.* 8vo. Pp. 216. 1894. Oxford: Clarendon Press. 6s.

Solomon, H. G. *Electricity Meters.* Large 8vo. Pp. 343. 1906. Griffin. 18s.

Taylor, W. T. *Calculation of Electric Conductors: with Chart.* Imp. 8vo. Pp. 34. 1919. Constable. 10s. 6d.

Whittaker's Arithmetic of Electrical Engineering. 3rd edn. Cr. 8vo. Pp. 212. 1916. Pitman. 3s. 6d.

xi. INDUCTION COILS AND BATTERIES.

Allsop, F. C. *Induction Coils and Coil Making. A Treatise on the Construction and Working of Shock, Medical, and Spark Coils.* 2nd edn. Cr. 8vo. Pp. 184. 1914. Spon. 3s. 6d.

Bonney, G. E. *Induction Coils. A Practical Manual for Amateur Coil Makers.* 6th edn. Cr. 8vo. Pp. 238. 1919. Pitman. 6s.

Codd, M. A. *Induction Coil Design.* Demy 8vo. Pp. 243. 1920. Spon. 21s.

Cooper, W. R. *Primary Batteries: Their Theory, Construction, and Use.* 2nd imp. Demy 8vo. Pp. 467. 1920. Benn Bros. 15s.

- Dunton, W. F.** *The Grouping of Electric Cells.* 16mo. Pp. 50. 1914. Spon. 2s.
- Hare, A. T.** *The Construction of Large Induction Coils. A Workshop Handbook.* Demy 8vo. Pp. 164. 1900. Methuen. 6s.
- McKinnon, E. C.** *The A.B.C. of Storage Battery Management.* Demy 8vo. Pp. 101. 1920. Electrical Press. 3s. 6d.
- Rankin, R.** *Storage Battery Practice. A Practical Handbook on the Manufacture and Properties of Electric Accumulators, and their Installation and Operation.* Demy 8vo. Pp. 170. 1919. Pitman. 7s. 6d.
- Salomons, Sir D.** *Management of Accumulators.* New edn. Cr. 8vo. Pp. 174. 1921. Pitman. 7s. 6d.
- xii. ELECTRIC WIRING AND FITTING.**
- Bursill, A.** *The Principles and Practice of Electric Wiring.* New imp. Cr. 8vo. Pp. 232. 1919. Longmans. 5s.
- Clinton, W. C.** *Electric Wiring. A Primer for the Use of Wiremen and Students.* Fcap. 8vo. Pp. 200. 1919. Murray. 3s. 6d.
- Devey, R. G.** *Mill and Factory Wiring.* New imp. Fcap. 8vo. Pp. 197. 1919. Constable. 2s. 6d.
- Dover, A. T.** *Power Wiring Diagrams.* Fcap. 8vo. Pp. 208. 1917. Pitman. 7s. 6d.
- Havelock, J. H.** *Electrical Installation Work (including "Electric Wiremen's Work"). A Practical Handbook for Students and all engaged in Electrical Installation Work.* Demy 8vo. Pp. 374. 1921. Crosby Lockwood. 15s.
- Ibbetson, W. S.** *Electric Wiring: Theory and Practice.* 2nd edn. Cr. 8vo. Pp. 470. 1920. Spon. 18s.
- Johnson, T. M.** *Shipwiring and Fitting.* Fcap. 8vo. Pp. 92. 1911. Constable. 2s.
- Leaf, H. M.** *Internal Wiring of Buildings.* 3rd edn. Cr. 8vo. Pp. 280. 1907. Constable. 3s. 6d.
- Maycock, W. P.** *Electric Wiring Tables. A collection of original and carefully verified Tables for the use of Electrical Engineers.* 4th edn. Pocket size. Pp. 185. 1920. Pitman. 5s.
- *Electric Wiring, Fittings, Switches, and Lamps.* 5th edn. Cr. 8vo. Pp. 629. 1917. Pitman. 10s. 6d.
- *Electric Wiring Diagrams: A Collection, with brief explanations, of most of the Diagrams given in the same author's work "Electric Wiring, Fittings, Switches and Lamps."* Cr. 8vo. Pp. 146. 1918. Pitman. 5s.
- Metcalfe, C. C.** *Practical Electric Wiring for Lighting Installations.* 2nd edn. Demy 8vo. Pp. 203. 1919. Harper. 6s.
- Paterson, G. W. L.** *Wiring Calculations for Electric Light and Power Installations.* Cr. 8vo. Pp. 96. 1912. Scott, Greenwood. 6s.
- Urquhart, J. W.** *Electric Light Fitting.* 4th edn. Cr. 8vo. Pp. 363. 1904. Crosby Lockwood. 6s.
- *Electric Ship Lighting. A Handbook on Fitting and Running Ship's Electrical Plant.* 4th edn. Cr. 8vo. Pp. 367. 1911. Crosby Lockwood. 8s. 6d.
- Walker, S. F.** *Electric Wiring and Fitting.* Cr. 8vo. Pp. 160. 1908. Scott, Greenwood. 6s.
- xiii. ELECTRIC LIGHT AND ILLUMINATION.**
- Allsop, F. C.** *Practical Electric Light Fitting. A Treatise on the Wiring and Fitting up of Buildings from Central Station Mains, and the Laying down of Private Installations.* 6th edn. Cr. 8vo. Pp. 290. 1914. Pitman. 6s.
- Barham, G. B.** *The Development of the Incandescent Electric Lamp.* Demy 8vo. Pp. 200. 1912. Scott, Greenwood. 6s.

- Batstone, S. C.** *Electric-Light Fitting.* Cr. 8vo. Pp. 334. 1914. Pitman. 6s.
- Bohle, H.** *Electrical Photometry and Illumination.* Large 8vo. Pp. 233. 1912. Griffin. 12s. 6d.
- Brooks, E. E., and James, W. H. N.** *Electric Light and Power.* 5th edn. Cr. 8vo. Pp. 431. 1919. Methuen. 6s. 6d.
- J. F. L.** *Train Lighting by Electricity.* Cr. 8vo. Pp. 92. 1915. Locomotive Pub. Co. 3s. 6d.
- Jehl, F.** *Manufacture of Carbons for Electric Lighting and other Purposes.* Demy 8vo. Pp. 242. 1899. Benn Bros. 12s. 6d.
- Johnson, J. H.** *Arc Lamps and Accessory Apparatus.* Fcap. 8vo. Pp. 132. 1911. Constable. 2s.
- Lancaster, M.** *Electric Cooking, Heating, Cleaning, etc. A Manual of Electricity in the Service of the Home.* Demy 8vo. Pp. 348. 1914. Constable. 4s.
- Maycock, W. P.** *Electric Lighting and Power Distribution.* 8th edn. 2 Vols. Cr. 8vo. 1918. Vol. 1. Pp. 590. Vol. 2. Pp. 680. Pitman. 10s. 6d. each.
- Ogley, D. H.** *Incandescent Electric Lamps and their Application.* Cr. 8vo. Pp. 120. 1914. Longmans. 3s. 6d.
- Percival, G. A.** *The Electric Lamp Industry.* Cr. 8vo., Pp. 133. 1920. Pitman. 3s.
- Solomon, M.** *Electric Lamps.* Ex. Cr. 8vo. Pp. 330. 1909. Constable. 7s. 6d.
- Urquhart, J. W.** *Electric Light, its Production and Use.* 7th edn. Cr. 8vo. Pp. 444. 1902. Crosby Lockwood. 7s. 6d.
- Walker, S. F.** *Pocket Book of Electric Lighting and Heating.* Fcap. 8vo. Pp. 466. 1907. Crosby Lockwood. 5s.
- Zeidler, J., and Lustgarten, J.** *Electric Arc Lamps: Their Principles, Construction and Working.* Demy 8vo. Pp. 204. 1908. Harper. 6s.
- xiv. ELECTRIC BELLS.**
- Allsop, F. C.** *Practical Electric Bell Fitting.* 11th edn. Cr. 8vo. 1918. Pp. 186. Spon. 5s.
- *Electric Bell Construction. A Treatise on the Construction of Electric Bells, Indicators, and similar apparatus.* New imp. Cr. 8vo. Pp. 143. 1914. Spon. 3s. 6d.
- Bottone, S. R.** *Electric Bells and All About Them.* 8th edn. Revised by C. Sylrester. Cr. 8vo. Pp. 187. 1919. Pitman. 3s. 6d.
- Redfern, J. B., and Savin, J.** *Bells, Indicators, Telephones, Alarms, etc.* Fcap. 8vo. Pp. 123. 1913. Constable. 2s.
- White, H. G.** *Electric Bells, Alarms, and Signalling Systems.* 2nd edn. Cr. 8vo. Pp. 112. 1921. Rentell. 3s. 6d.
- xv. ELECTRIC TRACTION.**
- Agnew, W. A.** *The Electric Tram Car Handbook for Motormen, Inspectors, etc.* 8th edn. Cr. 8vo. Pp. 140. 1920. "Electrical Review." 3s. 6d.
- Austin, E.** *Single-Phase Electric Railways.* Demy 4to. Pp. 317. 1915. Constable. 21s.
- Bowker, W. R.** *The Practical Construction of Electric Tramways.* 8vo. Pp. 119. 1914. Spon. 7s. 6d.
- Calisch, L.** *Electric Traction.* Cr. 8vo. Pp. 116. 1915. Locomotive Pub. Co. 3s. 6d.
- Davies, F. H.** *Electric Power and Traction.* Ex. Cr. 8vo. Pp. 299. 1907. Constable. 7s. 6d.
- Dawson, P.** *Electric Traction on Railways.* Roy. 8vo. Pp. 892. 1909. Benn Bros. 32s.
- Dover, A. T.** *Electric Traction. A Treatise on the Application of Electric Power to Electric Traction on Railways and Tramways.* 2nd edn. Med. 8vo. Pp. 685. 1919. Pitman. 25s.

- Dover, A. T.** Electric Motors and Control Systems. A Treatise on Electric Traction Motors and their Control. Med. 8vo. Pp. 388. 1918. Pitman. 18s.
- Gant, L. W.** Elements of Electric Traction for Motormen and others. Demy 8vo. Pp. 227. 1907. Harper. 6s.
- Hobart, H. M.** Electric Trains. Demy 8vo. Pp. 219. 1910. Harper. 7s. 6d.
- Electric Propulsion of Ships. Demy 8vo. Pp. 179. 1911. Harper. 6s.
- Ibbetson, W. S.** Tramway Motorman's Handbook. Cr. 8vo. Pp. 216. 1920. Spon. 6s. 6d.
- Kapp, G.** The Electrification of Railways. 4to. Pp. 45. 1908. Rentell. 1s.
- Rider, J. H.** Electric Traction. A Practical Handbook on the Application of Electricity as a Locomotive Power. Cr. 8vo. Pp. 450. 1903. Pitman. 12s. 6d.
- Sayers, H. M.** Brakes for Electric Tramway Cars. Demy 8vo. Pp. 82. 1907. Benn Bros. 4s.
- Trewman, H. F.** Electrification of Railways. Pott 8vo. Pp. 88. 1920. Pitman. 2s. 6d.
- Wilson, E., and Lydall, F.** Electrical Traction. 2 vols. Demy 8vo. 1907. Vol. I., Direct Current. Pp. 475. Vol. II., Alternating Current. Pp. 328. Arnold. 15s. each.
- Cross, H. H. U.** Automobile Batteries. A Practical Handbook on the Construction, Charging, Repair, and Maintenance of Ignition, Starting, Lighting, and Electric Vehicle Batteries; Dry, Lead, and Alkaline Types. Cr. 8vo. Pp. 101. 1919. Spon. 4s.
- Electric Lighting for Cycles and Motor Cycles. Cr. 8vo. Pp. 132. 1920. Spon. 3s. 6d.
- Electric Lighting and Starting for Motor Cars. 2nd edn. Cr. 8vo. Pp. 281. 1916. Crosby Lockwood. 5s.
- Hibbert, W.** Magneto and Electric Ignition. 3rd edn. Pp. 186. 1919. Pitman. 3s. 6d.
- Hutton, F. H.** Electricity and the Motor Car: Lighting, Engine Starting and Ignition. 4th edn. Cr. 8vo. Pp. 256. 1920. Iliffe. 5s. 6d.
- Morgan, J. D.** Principles of Electric Spark Ignition in Internal Combustion Engines. Med. 8vo. Pp. 88. 1919. Crosby Lockwood. 8s. 6d.
- Sylvester, C.** Coil Ignition for Motor Cars. A Manual for the Motor Mechanic, Owner-Driver, and all interested in Coil Ignition Systems. Cr. 8vo. Pp. 239. 1921. Pitman. 10s. 6d.
- Young, A. P.** Magnetos. The Theory and Practice of Magnetos, Ignition for all Forms of Internal Combustion Engines. 2nd edn. Cr. 8vo. Pp. 240. 1920. Iliffe. 4s. 6d.
- 6
- xvi. ELECTRICAL APPLICATION TO THE MOTOR CAR.**
- Beaumont, W. W.** Industrial Electric Vehicles and Trucks. Demy 8vo. Pp. 195. 1920. Griffin. 15s.
- Bottone, S. R.** Magnetos for Automobilists. How Made and How Used. 3rd edn. Cr. 8vo. Pp. 118. 1918. Crosby Lockwood. 2s. 6d.
- xvii. ELECTRO PLATING.**
- Barclay, W. R., and Hainsworth, C. H.** Electroplating: A Treatise on the Electro-deposition of Metals. With a Chapter on Metal-Colouring and Bronzing. New edition in preparation. E. Arnold.
- Bonney, G. E.** The Electro-Platers' Handbook. A Practical Manual in Electro-Metallurgy. 5th edn. Cr. 8vo. Pp. 221. 1909. Pitman. 5s.

Denny, C. W. The Electro-Deposition of Copper and its Industrial Applications. Fcap. 8vo. Pp. 120. 1921. Pitman. 2s. 6d.

Field, S. The Principles of Electro-Deposition: A Laboratory Guide to Electro-Plating. Cr. 8vo. Pp. 400. 1911. Longmans. 7s. 6d.

Sprague, J. T. Elements of Electro-Plating. Cr. 8vo. Pp. 72. 1914. Spon. 2s. 6d.

Watt, A. The Electro-plating and Electro-refining of Metals. Being a new edition of "Electro-Deposition," revised, &c., by A. Philip. 2nd edn. Large Cr. 8vo. Pp. 704. 1911. Crosby Lockwood. 14s.

—Electro Plating, based on "Electro Metallurgy Practically Treated." Cr. 8vo. Pp. 192. 1920. Crosby Lockwood. 5s.

xviii. ELECTRIC WELDING.

Carpmael, H. Electric Welding and Welding Appliances. Imp. 8vo. Pp. 140. 1920. Constable. 18s.

Marquand, H. S. Electric Welding. Its Theory, Practice, Application and Economics. Demy 8vo. Pp. 204. 1920. Benn Bros. 12s. 6d.

Swift, H. B. Practical Electric Welding. Demy 8vo. Pp. 104. 1920. Spon. 7s. 6d.

xix. TELEPHONY AND TELEGRAPHY.

Ailsop, F. C. Telephones, their Construction and Fitting. 8th edn. Cr. 8vo. Pp. 222. 1914. Spon. 5s.

Atkins, W. Principles of Automatic Telephony. 2nd edn. Cr. 8vo. Pp. 124. 1915. Benn Bros. 3s.

—Common Battery Telephony Simplified. 2nd edn. Cr. 8vo. Pp. 190. 1913. Benn Bros. 3s. 6d.

Baker, T. T. The Telegraphic Transmission of Photographs. Cr. 8vo. Pp. 158. 1910. Constable. 2s. 6d.

Bell, J., and Wilson, S. The Telegraphist's Guide to the Departmental and City and Guilds Examinations in Telegraphy. 8th edn. Cr. 8vo. Pp. 273. 1920. Rentell. 5s.

Crotch, A. The Elements of Telephony. 2nd edn. Cr. 8vo. Pp. 114. 1918. Spon. 2s. 6d.

—The Hughes and Baudôt Telegraphs. Cr. 8vo. Pp. 83. 1908. Rentell. 2s.

—Telegraphy: an Elementary Text-book on the Principles of Electricity as applied to Telegraph Systems. Cr. 8vo. Pp. 165. 1919. Spon. 4s. 6d.

—Telegraphic Systems, and other Notes. A Handbook of the Principles on which Telegraphic Practice is Based. Large Cr. 8vo. Pp. 284. 1908. Griffin. 6s.

—Elementary Telegraphy and Telephony. New imp. 8vo. Pp. 223. 1912. Spon. 6s.

Fleming, J. A. The Propagation of Electric Currents in Telephone and Telegraph Conductors. 3rd edn. Demy 8vo. Pp. 384. 1919. Constable. 21s.

Herbert, T. E. Telegraphy: A detailed Exposition of the Telegraph System of the British Post Office. 4th edn. Cr. 8vo. Pp. 1,039. 1920. Pitman. 18s.

—and Wardt, R. G. de. The Arithmetic of Telegraphy and Telephony. Cr. 8vo. Pp. 196. 1921. Pitman. 5s.

Hill, J. G. Telephonic Transmission: Theoretical and Applied. 8vo. Pp. 398. 1920. Longmans. 21s.

Jones, W. H. Telegraphy for Beginners. The Standard Method. 2nd edn. Cr. 8vo. Pp. 58. 1913. Spon. 2s. 6d.

Kingsbury, J. E. The Telephone and Telephone Exchanges: Their Invention and Development. 8vo. Pp. 568. 1915. Longmans. 15s.

Lee, J. Telegraph Practice: A Study of Comparative Method. Cr. 8vo. Pp. 112. 1917. Longmans. 3s.

Electrical Engineering.

- Malcolm, H. W.** *The Theory of the Submarine Telegraph and Telephone Cable.* Demy 8vo. Pp. 576. 1917. Benn Bros. 22s.
- Mordin, R.** *The Strowger Automatic Telephone Exchange.* Demy 8vo. Pp. 186. 1919. Spon. 21s.
- Pendry, H. W.** *Elementary Telegraphy. A Manual for Students.* 2nd edn. Cr. 8vo. Pp. 247. 1921. Pitman. 7s. 6d.
- *The Baudôt Printing Telegraph System.* 2nd edn. Cr. 8vo. Pp. 191. 1920. Pitman. 6s.
- Poole, J.** *The Practical Telephone Handbook and Guide to the Telephonic Exchange.* 6th edn. Cr. 8vo. Pp. 725. 1919. Pitman. 15s.
- *Telegraphy, Telephony and Wireless.* Cr. 8vo. Pp. 128. 1921. Pitman. 3s.
- Preece, Sir W. H., and Sivewright, Sir J.** *Telegraphy.* Revised and Partly rewritten by W. L. Preece. 8vo. Pp. 432. 1919. Longmans. 12s. 6d.
- Stevens, E. J.** *Field Telephones and Telegraphs for Army Use.* 7th edn. Cr. 8vo. Pp. 160. 1918. Crosby Lockwood. 3s.
- White, H. G.** *Telephone Erection and Maintenance.* 2nd edn. 8vo. Pp. 129. 1917. Rentell. 2s. 6d.
- xx. WIRELESS TELEGRAPHY AND TELEPHONY.**
- Bangay, R. D.** *The Elementary Principles of Wireless Telegraphy.* Cr. 8vo. 1918. Part I. Pp. 212. 4s. Part II. Pp. 241. 4s. Or in 1 vol. 7s. 6d. Wireless Press.
- *The Oscillation Valve: The Elementary Principles of its Application to Wireless Telegraphy.* Cr. 8vo. Pp. 215. 1919. Wireless Press. 6s.
- Blake, E.** *Selected Studies in Elementary Physics: A Handbook for the Wireless Student and Amateur.* Cr. 8vo. Pp. 176. 1920. Wireless Press. 5s.
- Bottom, S. R.** *Wireless Telegraphy and Hertzian Waves.* Revised by C. Sylvester. 5th edn. Cr. 8vo. Pp. 136. 1919. Pitman. 3s. 6d.
- Brown, S. W.** *Simple Fault Tracing: for Wireless Students and Operators.* Fcap. 8vo. Pp. 80. 1919. Jas. Munro. 1s. 6d.
- Coursey, P. R.** *Telephony Without Wires.* Demy 8vo. Pp. 414. 1919. Wireless Press. 15s.
- Cross, F.** *Wireless Explained.* Cr. 8vo. Pp. 72. 1918. James Brown. 3s. 6d.
- Dowsett, H. M.** *Wireless Telegraphy and Telephony: First Principles, Present Practice, and Testing.* Demy 8vo. Pp. 362. 1920. Wireless Press. 9s.
- Eccles, W. H.** *Continuous Wave Wireless Telegraphy. Part I.* Demy 8vo. Pp. 415. 1921. Wireless Press. 25s.
- Eichhorn, G.** *Wireless Telegraphy.* Large 8vo. Pp. 126. 1906. Griffin. 10s. 6d.
- Erskine-Murray, J.** *Handbook of Wireless Telegraphy: Its Theory and Practice.* 6th edn. Demy 8vo. Pp. 458. 1918. Crosby Lockwood. 12s. 6d.
- Fleming, J. A.** *Principles of Electric Wave Telegraphy and Telephony.* 4th edn. 8vo. Pp. 724. 1919. Longmans. 42s.
- *An Elementary Manual of Radio-Telegraphy and Radio-Telephony for Students and Operators.* 3rd edn. 8vo. Pp. 374. (1916) 1919. Longmans. 10s. 6d.
- *The Wonders of Wireless Telegraphy.* 2nd edn. Cr. 8vo. Pp. 280. 1919. S.P.C.K. 7s. 6d.
- *The Wireless Telegraphist's Pocket Book of Notes, Formulae, and Calculations.* Pocket size. Pp. 352. 1915. Wireless Press. 9s.
- *The Thermionic Valve and its Development in Radio-Telegraphy and Telephony.* Demy 8vo. Pp. 279. 1919. Wireless Press. 15s.
- Fortescue, C. L.** *Wireless Telegraphy.* Roy. 16mo. Pp. 149. 1913. Cambridge University Press. 2s. 6d.

Electrical Engineering.

- Harris, P. W.** The Maintenance of Wireless Telegraph Apparatus. Cr. 8vo. Pp. 127. 1918. Wireless Press. 2s. 6d.
- Hawkhead, J. C., and Dowsett, H. M.** The Handbook of Technical Instruction for Wireless Telegraphists. 2nd edn. Demy 8vo. Pp. 310. 1919. Wireless Press. 7s. 6d.
- Henstock, J.** Final Digest for Wireless Students. 3rd edn. Cr. 8vo. Pp. 90. 1918. Jas. Munro. 4s. 6d.
- Hoyle, B.** Standard Tables and Equations in Radio-Telegraphy. Demy 8vo. Pp. 159. 1919. Wireless Press. 9s.
- Leggett, B.** Wireless Telegraphy: with Special reference to the Quenched-Spark System. Demy 8vo. Pp. 502. 1921. Chapman and Hall. 30s.
- Marchant, W. H.** Wireless Telegraphy. A Practical Handbook for the Use of Operators and Students. 2nd edn. Cr. 8vo. Pp. 240. 1919. Pitman. 7s. 6d.
- The Radio-Telegraphist's Guide and Log-Book. Fcap. 8vo. Pp. 142. 1912. Pitman. 5s. 6d.
- Martin, M. J.** The Wireless Transmission of Photographs. 2nd edn. 8vo. Pp. 143. 1919. Wireless Press. 5s.
- Monckton, C. C. F.** Radio-Telegraphy. Ex. Cr. 8vo. Pp. 289. 1908. Constable. 7s. 6d.
- Nottage, W. H.** Calculation and Measurement of Inductance and Capacity. Demy 8vo. Pp. 144. 1916. Wireless Press. 3s. 6d.
- Owen, W. D.** Guide to the Study of the Ionic Valve. Its Development and Application to Wireless Telegraphy and Telephony. Fcap. 8vo. Pp. 60. 1919. Pitman. 2s. 6d.
- Penrose, H. E.** The Wireless Telegraphy Student's Library. 5 Parts. Cr. 8vo. Paper covers. 1919. Book 1. Direct Current. Pp. 64. Book 2. Alternating Current. Pp. 48. Book 3. High-Frequency Current and Wave Production. Pp. 64. Book 4. The $\frac{1}{2}$ -k.w. Ship Set. Pp. 74. Book 5. The Oscillation Valve. Pp. 50. Wireless Press. 1s. 4d. each.
- Rolfe-Martin, A. B.** Wireless Telegraphy. A Handbook on the Fundamental Principles and Modern Practice of Radio-Telegraphy for the use of Students of Electrical Engineering. Cr. 8vo. Pp. 256. 1914. Black. 3s. 6d.
- Ruhmer, E.** Wireless Telephony in Theory and Practice. Translated by J. Erskine-Murray. Demy 8vo. Pp. 237. 1908. Crosby Lockwood. 10s. 6d.
- Shaw, W. J.** Practical and Experimental Wireless Telegraphy. A Handbook for Operators, Students and Amateurs. Cr. 8vo. Pp. 102. 1914. Spon. 5s.
- Shore, A.** Alternating Current Work for Wireless Operators. Cr. 8vo. Pp. 163. 1919. Wireless Press. 3s. 6d.
- Sleeper, M. B.** Wireless Design and Practice. Part. 1. Transmitters and Receivers. Part. 2. Practical Circuits. Pp. 246. 1920. Frowde and Hodder. 7s. 6d.
- Stanley, R.** Text-Book on Wireless Telegraphy. New edn. 2 vols. 8vo. 1919. Vol. 1. General Theory and Practice. Pp. 486. Vol. 2. Valves, Continuous Waves and Radio-Telephony. Pp. 368. Longmans. 15s. each.
- Turner, L. B.** Wireless Telegraphy and Telephony. An Outline for Electrical Engineers and others. Demy 8vo. Pp. 207. 1921. Cambridge University Press. 20s.
- Ward, H.** Dictionary of Technical Terms used in Wireless Telegraphy. 2nd edn. Pocket size. Pp. 253. 1919. Wireless Press. 2s. 6d.
- Willis, S. J.** A Short Course in Elementary Mathematics and their Application to Wireless Telegraphy. Demy 8vo. Pp. 182. 1917. Wireless Press. 3s. 6d.
- Year Book of Wireless Telegraphy and Telephony.** 1921. Demy 8vo. Pp. 1,855. March, 1921. Wireless Press. 21s.

CHEMISTRY.

i. HISTORY.

Armitage, F. P. A History of Chemistry. 2nd imp. Cr. 8vo. Pp. 286. 1912. Longmans. 7s. 6d.

Bauer, H. A History of Chemistry. Translated by R. V. Stanford. Cr. 8vo. 1907. Arnold. 4s. 6d.

Brown, J. C. A History of Chemistry from the Earliest Times to the Present Day. 2nd edn. Demy 8vo. Pp. 571. 1920. Churchill. 21s.

Hilditch, T. P. A Concise History of Chemistry. Cr. 8vo. Pp. 274. 1911. Methuen. 5s.

Lowry, T. M. Historical Introduction to Chemistry. Cr. 8vo. Pp. 599. 1915. Macmillan. 10s. 6d.

Martin, G. Modern Chemistry and its Wonders. A Popular Account of some of the more remarkable Recent advances in Chemical Science for General Readers. Large Cr. 8vo. Pp. 367. 1917. Sampson Low. 10s. 6d.

—Triumphs and Wonders of Modern Chemistry. Cr. 8vo. Pp. 375. N.D. Sampson, Low. 10s. 6d.

Slosson, E. E. Creative Chemistry: Descriptive of Recent Achievements in the Chemical Industries. Demy 8vo. Pp. 311. 1921. University of London Press. 12s. 6d.

Thorpe, Sir T. E. Essays in Historical Chemistry. 3rd edn. 8vo. Pp. 614. 1911. Macmillan. 15s.

—History of Chemistry. Cr. 8vo. Pp. 320. Watts. 5s.

Tilden, Sir W. A. The Progress of Scientific Chemistry in Our Own Times: with Biographical Notices. 2nd edn. Cr. 8vo. Pp. 378. 1918. Longmans. 8s.

Tilden, Sir W. A. Chemical Discovery and Invention in the Twentieth Century. 3rd edn. 8vo. Pp. 503. 1919. Routledge. 12s. 6d.
—Famous Chemists: the Men and their Work. Demy 8vo. Pp. 312. 1921. Routledge. 12s. 6d.

ii. GENERAL.

Abegg, R., and Herz, W. Practical Chemistry. Translated by H. T. Calvert. Cr. 8vo. Pp. 132. 1901. Macmillan. 6s.

Bailey, G. H. Elementary Chemistry. Edited by W. Briggs. 4th edn. 8th imp. Cr. 8vo. Pp. 536. 1914. University Tutorial Press. 6s. 6d.

—and **Bausor, H. W.** Chemistry for Matriculation. 7th imp. Cr. 8vo. Pp. 556. 1919. University Tutorial Press. 8s. 6d.

—Senior Chemistry. 2nd edn. 5th imp. Cr. 8vo. Pp. 526. 1919. University Tutorial Press. 6s. 6d.

—and **Briggs, W.** The Tutorial Chemistry. Part 1. Non-Metals. 4th edn. 9th imp. Cr. 8vo. Pp. 492. 1918. 5s. Part 2. Metals and Physical Chemistry. 3rd edn. 10th imp. Cr. 8vo. Pp. 468. 1918. 6s. 6d. University Tutorial Press.

Bassett, H. Ll. The Elements of Chemistry. Cr. 8vo. Pp. 360. 1914. Crosby Lockwood. 7s. 6d.

Bausor, H. W. Senior Practical Chemistry. Cr. 8vo. Pp. 225. 1919. University Tutorial Press. 4s.

Bloxam, A. G., and Lewis, S. J. Chemistry, Inorganic and Organic. 10th edn. 8vo. Pp. 878. 1918. Churchill. 24s.

- Bruce, J., and Harper, H.** Practical Chemistry. 2nd edn. New Imp. Gl. 8vo. Pp. 284. 1919. Macmillan. 2s.
- Bryant, V. S.** Laboratory Text-book of Chemistry. Part 1. Roy. 4to. Pp. 252. 1913. Churchill. 4s.
- Cain, J. C.** (edited by). Annual Reports of the Progress of Chemistry for 1919. Issued by the Chemical Society. Vol. 16. Demy 8vo. Pp. 243. 1920. Gurney and Jackson. 4s. 6d.
- Catechism Series.** Chemistry. 2nd and 3rd Edns. 2 Parts. Revised by L. Dobbin. Part 1. Inorganic. Part 2. Inorganic and Organic. Livingstone. 1s. 9d. each.
- Church, A. H., and Kinch, E.** Laboratory Guide. A Manual of Practical Chemistry for Colleges and Schools, arranged for Agricultural Students. 9th edn. Post 8vo. 1912. Gurney and Jackson. 6s. 6d.
- Clowes, F., and Coleman, J. B.** Elementary Practical Chemistry and Qualitative Analysis. Part 1. General Chemistry. 7th edn. Post 8vo. Pp. 241. 1919. 7s. 6d. Part 2. Analytical Chemistry. 9th edn. Post 8vo. Pp. 272. 1921. 7s. 6d. Churchill.
- Donington, G. C.** A Class Book of Chemistry. Gl. 8vo. Pp. 546. 1916. Macmillan. 6s. 6d.
- Dreaper, W. P.** Notes on Chemical Research: An Account of Certain Conditions which Apply to Original Investigation. 2nd edn. Cr. 8vo. Pp. 210. 1920. Churchill. 7s. 6d.
- Dunncliff, H. B.** Practical Chemistry for Intermediate Classes. Cr. 8vo. Pp. 290. 1918. Macmillan. 5s.
- Dunstan, A. E.** Elementary Experimental Chemistry. 7th edn. Cr. 8vo. Pp. 208. 1918. Methuen. 3s.
- and **Thole, F. B.** A Text Book of Practical Chemistry for Technical Institutes. Cr. 8vo. Pp. 358. 1919. Methuen. 7s. 6d.
- Dunstan, A. E. and Thole, F. B.** A Senior Experimental Chemistry. Cr. 8vo. Pp. 536. 1919. Methuen. 7s. 6d.
- Fenton, H. J. H.** Outlines of Chemistry. Part 1. 2nd edn. Demy 8vo. Pp. 424. 1918. Cambridge University Press. 12s.
- Fournier d'Albe, E. E.** Contemporary Chemistry. Cr. 8vo. Pp. 196. 1911. Constable. 4s.
- Freund, I.** The Experimental Basis of Chemistry. Suggestions for a Series of Experiments Illustrative of the Fundamental Principles of Chemistry. Edited by A. Hutchinson and M. B. Thomas. Demy 8vo. Pp. 424. 1920. Cambridge University Press. 30s.
- Gemmell, G. H.** Chemical Notes and Equations. Inorganic and Organic. 2nd edn. Pp. 280. 1909. Baillière. 5s.
- Hale, A. J.** Practical Chemistry for Engineering Students. new edn. Cr. 8vo. Pp. 212. 1920. Longmans. 6s. 6d.
- Hendrick, E.** Everyman's Chemistry: The Chemist's Point of View and his Recent Work told for the Layman. 2nd imp. Demy 8vo. Pp. 329. 1919. University of London Press. 8s. 6d.
- Hood, G. F., and Carpenter, J. A.** A Text-Book of Practical Chemistry. 8vo. Pp. 539. 1921. Churchill. 21s.
- Hughes, A. M.** A Method of Teaching Chemistry in Schools. Cr. 8vo. Pp. 132. 1906. Cambridge University Press. 4s. 3d.
- Kingzett, C. T.** Popular Chemical Dictionary. Demy 8vo. Pp. 374. 1920. Baillière. 15s.
- Lewes, V. B., and Brame, J. S. S.** Service Chemistry: being A Short Manual of Chemistry and Metallurgy and their Application in the Naval and Military Services. 5th edn. Demy 8vo. Pp. 576. 1920. Arnold. 21s.

- Ludlam, E. B., and Preston, H.** Outlines of Experimental Chemistry. 2nd edn. Demy 8vo. Pp. 100. 1917. E. Arnold. 2s. 6d.
- Martin, G.** Chemical Lecture Charts. A Series of 36 Sheets, 40 by 30 inches, 60s.; backed with linen, 80s.; backed with linen, varnished and mounted on rollers, 126s. Sampson, Low.
- Meldola, R.** Chemistry. Fcap. 8vo. Pp. 255. 1913. Williams and Norgate. 2s. 6d.
- Muir, M. M. P.** The Elements of Chemistry. 8vo. Pp. 568. 1904. Churchill. 10s. 6d.
- and Carnegie, D.** Practical Chemistry. A Course of Laboratory Work. Cr. 8vo. Pp. 230. 1887. Cambridge University Press. 4s. 6d.
- Newth, G. S.** Chemical Lecture Experiments. Cr. 8vo. Pp. 356. 1918. Longmans. 9s.
- Elementary Practical Chemistry.** Cr. 8vo. Pp. 300. 1919. Longmans. 4s.
- Normandy, F.** Sea Water Distillation. Large Cr. 8vo. Pp. 272. 1909. Griffin. 7s. 6d.
- Oldham, F. M.** The Complete School Chemistry. 14th edn. Cr. 8vo. Pp. 470. 1919. Methuen. 7s. 6d.
- O'Shea, L. T.** Elementary Chemistry for Coal-Mining Students. New imp. Cr. 8vo. Pp. 332. 1920. Longmans. 9s.
- Partridge, W.** Aids to Chemistry. Fcap. 8vo. Pp. 288. 1921. Baillière. 6s.
- Perkin, F. M., and Jagers, E. M.** Text-Book of Elementary Chemistry. Cr. 8vo. Pp. 390. 1916. Constable. 4s.
- Perkin, W. H. and Lean, B.** An Introduction to Chemistry and Physics. New Imp. Gl. 8vo. Pp. 238. 1917. Macmillan. 5s.
- Pilcher, R. B.** The Profession of Chemistry. Cr. 8vo. Pp. 213. 1919. Constable. 6s. 6d.
- Remsen, I.** College Text Book of Chemistry. 2nd edn. 8vo. Pp. 726. 1912. Macmillan. 12s. 6d.
- Robinson, W.** Everyday Chemistry. Cr. 8vo. Pp. 144. 1920. Methuen. 3s. 6d.
- Roscoe, Sir H. E.** Lessons in Elementary Chemistry, Inorganic and Organic. Fcap. 8vo. Pp. 536. 1918. Macmillan. 6s.
- and Schorlemmer, C.** A Complete Treatise on Inorganic and Organic Chemistry. 8vo. Vol. 1. The Non-Metallic Elements. 5th edn. Revised by J. C. Cain. Pp. 984. 1920. 30s. Vol. 2. The Metals. 5th edn. Pp. 1,470. 1913. 40s. Vol. 3. The Chemistry of the Hydro-Carbons and their Derivatives, or Organic Chemistry. Part 2. 2nd edn. Pp. 755. 1890. 21s. Part 3. 2nd edn. Pp. 433. 1891. 18s. Part 6. Pp. 582. 1892. 21s. Macmillan.
- Stewart, A. W.** Chemistry and its Borderland. Cr. 8vo. Pp. 326. 1914. Longmans. 6s. 6d.
- Tilden, Sir W. A.** A Primer of Chemistry. Fcap. 8vo. Pp. 108. Dent. 2s.
- Tyler, E. A.** A Junior Chemistry. 11th edn. Cr. 8vo. Pp. 245. 1919. Methuen. 4s.
- Valentin, W. G.** Practical Chemistry. Revised by W. R. Hodgkinson. 10th edn. 8vo. Pp. 496. 1908. Churchill. 12s. 6d.

iii. ORGANIC AND INORGANIC FOR MEDICAL STUDENTS.

- Cohen, J. B.** A Class Book of Organic Chemistry. Gl. 8vo. Vol. 1. For First Year Medical Students. Pp. 352. 1919. Vol. 2. For Second Year Medical Students. Pp. 156. 1919. Macmillan. 4s. 6d. each Vol.
- Cumming, A. C.** Practical Chemistry for Medical Students. 3rd edn. Demy 8vo. Pp. 173. 1920. Gurney and Jackson. 8s.

Haas, P. *Laboratory Notes on Organic Chemistry for Medical Students.* Cr. 8vo. Pp. 136. 1910. Macmillan. 3s.

Kellas, A. M. *An Introduction to Practical Chemistry for Medical Students.* 8vo. Pp. 270. 1909. Frowde and Hodder. 5s.

— *A Manual of Practical Inorganic Chemistry for Medical Students.* 8vo. Pp. 355. 1910. Frowde and Hodder. 6s.

— *An Introduction to Practical Organic Chemistry for Medical Students.* 8vo. Pp. 212. 1920. Frowde and Hodder. 5s.

Luff, A. P., and Candy, H. C. H. *A Manual of Chemistry, Theoretical and Practical, Inorganic and Organic, adapted to the requirements of Students of Medicine.* 6th edn. Fcap. 8vo. Pp. 744. 1918. Cassell. 12s. 6d.

Macbeth, A. K. *Organic Chemistry for Medical, Intermediate Science and Pharmaceutical Students.* Cr. 8vo. Pp. 246. 1920. Longmans. 6s. 6d.

Myers, J. E., and Firth, J. B. *Elementary Practical Chemistry for Medical and other Students.* 2nd edn. Cr. 8vo. Pp. 194. 1920. Griffin. 4s. 6d.

Sargeant, F. P. *Elementary Organic Chemistry, adapted for the use of Pharmaceutical and Medical Students.* 2nd edn. Cr. 8vo. Pp. 107*. 1919. Lewis. 4s.

Walker, J. *Organic Chemistry for Students of Medicine.* 2nd edn. Med. 8vo. Pp. 344. 1919. Gurney and Jackson. 10s. 6d.

Witthaus, R. A. *Text-Book of Chemistry, Inorganic and Organic, with Toxicology. For Students of Medicine, Pharmacy, Dentistry and Biology.* Revised by R. J. E. Scott. 7th edn. Roy. 8vo. Pp. 490. 1919. Bale and Danielsson. 20s.

iv. CALCULATIONS AND REFERENCE BOOKS.

Annual Tables of Constants and Numerical Data, Chemical, Physical and Technological. Compiled and published under the patronage of the International Association of Academies. With a complete Table of Contents in the English, French, German and Italian Languages. Vol. 1. 4to. Pp. 766. (1919) 1912. 28s. 6d. Vol. 2. 4to. Pp. 780. (1911) 1913. 28s. 6d. Vol. 3. 4to. Pp. 648. (1912) 1914. 28s. 6d. Churchill.

Atack, F. W., and Whinyates, L. (edited by). *The Chemists' Year Book, 1921.* 2 Vols. 18mo. Pp. 1,150. Sherratt and Hughes. 21s.

Bausor, H. W. *Chemical Calculations.* 2nd edn. 3rd imp. Cr. 8vo. Pp. 144. 1920. 3s. Advanced Course. Pp. 56. 1914. 1s. 9d. University Tutorial Press.

Bayley, T. *Pocket Book for Chemists, Chemical Manufacturers, Metallurgists, Dyers, Distillers, Brewers, etc.* Edited by R. Ensoll. 8th edn. Fcap. 8vo. Pp. 441. 1919. Spon. 10s. 6d.

Castell-Evans, J. *Physico-Chemical Tables for the Use of Analysts, Physicists, Chemical Manufacturers, and Scientific Chemists.* 2 Vols. Large 8vo. 1920. Vol. 1. *Chemical Engineering, Physical Chemistry.* Pp. 580. 36s. Vol. 2. *Chemical Physics, Pure and Analytical Chemistry.* Pp. 700. 45s. Griffin.

Coward, H. F., and Perkins, W. H. *Exercises in Chemical Calculation.* Cr. 8vo. Pp. 160. 1919. E. Arnold. 3s. 6d.

Ensoll, R. *Technical Chemists' Pocket Book.* Fcap. 8vo. Pp. 204. 1920. Spon. 8s. 6d.

Everett, J. D. *The C. G. S. System of Units, with Tables of Physical Constants.* 5th edn. Globe 8vo. Pp. 308. 1902. Macmillan. 6s.

- Kaye, G. W. C., and Laby, T. H.** Tables of Physical and Chemical Constants, and Some Mathematical Functions. 4th edn. Roy. 8vo. Pp. 170. 1921. Longmans. 14s.
- Knox, J.** Elementary Chemical Theory and Calculations. 2nd edn. Cr. 8vo. Pp. 109. 1920. Gurney and Jackson. 4s.
- Physico-Chemical Calculations. 3rd edn. Cr. 8vo. Pp. 196. 1919. Methuen. 4s. 6d.
- Lupton, S.** Elementary Chemical Arithmetic, with 1,200 Problems. Fcap. 8vo. Pp. 184. 1920. Macmillan. 5s.
- Thorpe, Sir T. E.** Alcoholometric Tables. Cr. 8vo. Pp. 106. 1915. Longmans. 4s. 6d.
- Watts, H.** Dictionary of Chemistry. Revised by M. M. Pattison Muir and H. Forster Morley. 4 Vols. 8vo. 1888—1894. Pp. 752., 760., 853., 922. Longmans. £6 16s. 6d.
- Whiteley, R. L.** Chemical Calculations: with Explanatory Notes, Problems, and Answers. Cr. 8vo. Pp. 132. 1919. Longmans. 3s.
- Wilson, F. J., and Heilbron, I. M.** Chemical Theory and Calculations. 2nd edn. Cr. 8vo. Pp. 144. 1920. Constable. 4s. 6d.
- v. THEORETICAL AND PHYSICAL.**
- a. Theoretical.**
- Caven, R. M.** The Foundations of Chemical Theory. An Introductory Text-book. Demy 8vo Pp. 274. 1920. Blackie. 12s. 6d.
- Cooke, J. B.** The New Chemistry. 11th edn. Cr. 8vo. Pp. 417. 1903. Kegan Paul. 7s. 6d.
- Garrett, A. E.** The Periodic Law. Cr. 8vo. Pp. 300. 1909. Kegan Paul. 7s. 6d.
- Letts, E. A.** Some Fundamental Problems of Chemistry, Old and New. Demy 8vo. Pp. 236. 1914. Constable. 8s.
- Martin, G.** Researches on the Affinities of the Elements and on the Causes of the Chemical Similarity or Dissimilarity of Elements and Compounds. 8vo. Pp. 300. 1905. Churchill. 16s.
- Muir, M. M. P.** A Treatise on the Principles of Chemistry. 2nd edn. Demy 8vo. Pp. 517. 1889. Cambridge University Press. 18s. 6d.
- Nernst, W.** Theoretical Chemistry. Revised in accordance with the latest German edition by L. Codd. In the Press. Macmillan.
- Ostwald, W.** The Fundamental Principles of Chemistry. An Introduction to all Text-Books of Chemistry. Translated by H. W. Morse. 8vo. Pp. 362. 1917. Longmans. 10s. 6d.
- Outlines of General Chemistry. Translated by W. W. Taylor. 3rd edn. 8vo. Pp. 596. 1912. Macmillan. 21s.
- Ramsay, Sir W.** Modern Chemistry. Systematic. 5th edn. Pott 8vo. Pp. 211. 1912. Dent. 1s. 9d.
- Modern Chemistry. Theoretical. 6th edn. Pott 8vo. Pp. 133. 1917. Dent. 1s. 9d.
- Experimental Proofs of Chemical Theory for Beginners. Pott. 8vo. Pp. 158. 1908. Macmillan. 3s.
- Roscoe, Sir H. E., and Harden, A.** A New View of the Origin of Dalton's Atomic Theory. 8vo. Pp. 202. 1896. Macmillan. 7s. 6d.
- Scott, A.** An Introduction to Chemical Theory. 2nd edn. Demy 8vo. Pp. 272. 1911. Black. 5s.
- Tilden, Sir W. A.** Introduction to the Study of Chemical Philosophy. The Principles of Theoretical and Systematic Chemistry. 11th edn. Cr. 8vo. Pp. 374. 1912. Longmans. 7s. 6d.
- Van 'tHoff, J. H.** Lectures on Theoretical and Physical Chemistry. Translated by R. A. Lehfeldt. 3 vols. Demy 8vo. 1900. Vol. 1. Chemical Dynamics. Pp. 254. 12s. Vol. 2. Chemical Statics. Pp. 156. 8s. 6d. Vol. 3. Relations between Properties and Composition. Pp. 143. 8s. 6d. Arnold.

- Van 'tHoff, J. H.** Chemistry in Space. Translated by J. E. Marsh. Cr. 8vo. Pp. 136. 1891. Oxford: Clarendon Press. 4s. 6d.
- Wadmore, J. M.** Elementary Chemical Theory. Cr. 8vo. Pp. 287. 1911. Methuen. 5s.
- Watson, E. R.** Colour in Relation to Chemical Constitution. 8vo. Pp. 210. 1918. Longmans. 12s. 6d.
- b. Physical Chemistry.**
- Baly, E. C. C.** Spectroscopy. Cr. 8vo. Pp. 702. 1918. Longmans. 14s.
- Clibbens, D. A.** The Principles of the Phase Theory. Heterogeneous Equilibria between Salts and their Aqueous Solutions. 8vo. Pp. 403. 1920. Macmillan. 25s.
- Dunstan, A. E., and Thole, F. B.** The Viscosity of Liquids. 8vo. Pp. 100. 1914. Longmans. 5s.
- Fenton, H. J. H.** Physical Chemistry for Schools. Cr. 8vo. Pp. 224. 1916. Cambridge University Press. 5s. 6d.
- Findlay, A.** Practical Physical Chemistry. 3rd edn. Cr. 8vo. Pp. 343. 1920. Longmans. 6s. 6d.
- The Phase Rule and its Applications. 4th edn. Cr. 8vo. Pp. 382. 1918. Longmans. 9s.
- Osmotic Pressure. 2nd edn. 8vo. Pp. 128. 1919. Longmans. 7s.
- Firth, J. B.** Practical Physical Chemistry. Cr. 8vo. Pp. 190. 1915. Methuen. 4s. 6d.
- Friend, J. N.** The Theory of Valency. 2nd edn. Cr. 8vo. Pp. 206. 1915. Longmans. 6s. 6d.
- Gray, F. W.** A Manual of Practical Physical Chemistry. Cr. 8vo. Pp. 228. 1914. Macmillan. 4s. 6d.
- Hilditch, T. P.** A First Year Physical Chemistry. Cr. 8vo. Pp. 196. 1912. Methuen. 3s. 6d.
- Jaques, A.** Complex Ions in Aqueous Solutions. 8vo. Pp. 158. 1914. Longmans. 6s.
- Le Bas, G.** The Molecular Volumes of Liquid Chemical Compounds, from the Point of View of Kopp. 8vo. Pp. 288. 1915. Longmans. 9s. 6d.
- Lehfeldt, R. A.** A Text-book of Physical Chemistry. 2nd imp. Cr. 8vo. Pp. 320. Arnold. 8s. 6d.
- Lewis, W. G. McC.** A System of Physical Chemistry. 3rd edn. 3 vols. 8vo. Vol. 1. Kinetic Theory. Pp. 494. 1920. 15s. Vol. 2. Thermo-dynamics. Pp. 462. 1920. 15s. Vol. 3. Quantum Theory. Pp. 218. 1919. 7s. 6d. Longmans.
- Loring, F. H.** Studies in Valency. Demy 8vo. Pp. 56. 1913. Simpkin, Marshall. 3s.
- Optical Rotatory Power.** A General Discussion. Faraday Society Report, 1914. Demy 8vo. Pp. 96. 1914. Faraday Society. 7s. 6d.
- Phillip, J. C.** Physical Chemistry: its Bearing on Biology and Medicine. 2nd edn. Cr. 8vo. Pp. 334. 1913. Arnold. 8s. 6d.
- Prideaux, E. B. R.** Problems in Physical Chemistry with Practical Applications. 2nd edn. Demy 8vo. Pp. 306. 1920. Constable. 18s.
- Redgrove, H. S.** On the Calculation of Thermo-Chemical Constants. Demy 8vo. Pp. 106. 1909. Arnold. 6s.
- Sackur, O.** A Text-book of Thermo-Chemistry and Thermodynamics. Translated and revised by G. E. Gibson. 8vo. Pp. 456. 1917. Macmillan. 12s.
- Senter, G.** Outlines of Physical Chemistry. 8th edn. Cr. 8vo. Pp. 432. 1920. Methuen. 7s. 6d.
- Sheppard, S. E.** Photo-Chemistry. New edition in preparation. Longmans.
- Spencer, J. F.** An Experimental Course of Physical Chemistry. 2 Vols. Cr. 8vo. 1911. Vol. 1. Statical Experiments. Pp. 228. Vol. 2. Dynamical Experiments. Pp. 256. Bell. 4s. 6d. each.

Stewart, A. W. Recent Advances in Physical and Inorganic Chemistry. 4th edn. Demy 8vo. Pp. 362. 1920. Longmans. 18s.

— Stereochemistry. Cr. 8vo. Pp. 294. 1919. Longmans. 12s. 6d.

Thomsen, J. Thermochemistry. Translated by K. A. Burke. Cr. 8vo. Pp. 512. 1908. Longmans. 12s. 6d.

Thomson, Sir J. J. Application of Dynamics to Physics and Chemistry. Cr. 8vo. Pp. 320. 1888. Macmillan. 8s. 6d.

Turner, W. E. S. Molecular Association. 8vo. Pp. 178. 1915. Longmans. 7s.

Walker, J. Introduction to Physical Chemistry. 3th edn. 8vo. Pp. 433. Macmillan. 16s.

Whetham, W. C. D. A Treatise on the Theory of Solution, including the Phenomena of Electrolysis. Demy 8vo. new edition in preparation. Cambridge University Press.

Willows, R. S., and Hatschek, E. Surface Tension and Surface Energy, and their Influence on Chemical Phenomena. 2nd edn. Cr. 8vo. Pp. 123. 1919. Churchill. 5s.

Wurtz, Prof. The Atomic Theory. Translated by E. Cleminshaw. 8th edn. Cr. 8vo. Pp. 354. 1910. Kegan Paul. 7s. 6d.

Young, S. Stoichiometry. 2nd edn. 8vo. Pp. 376. 1918. Longmans. 12s. 6d.

c. Colloids.

Burton, E. F. The Physical Properties of Colloidal Solutions. New edition in preparation. Longmans.

Hatschek, E. An Introduction to the Physics and Chemistry of Colloids. 3rd edn. Cr. 8vo. Pp. 126. 1919. Churchill. 5s.

— Laboratory Manual of Elementary Colloid Chemistry. Cr. 8vo. Pp. 135. 1920. Churchill. 6s. 6d.

Poschl, V. The Chemistry of the Colloids. Translated by H. H. Hodgson. 2nd edn. Cr. 8vo. Pp. 120. 1917. Griffin. 4s.

Rohland, P. The Colloidal and Crystalloidal State of Matter. Translated from the German by H. E. Potts and W. J. Breitland. Cr. 8vo. Pp. 54. 1911. Constable. 4s. 6d.

Searle, A. B. The Use of Colloids in Health and Disease. Demy 8vo. Pp. 127. 1920. Constable. 8s.

Svedberg, T. The Formation of Colloids. Cr. 8vo. Pp. 127. 1921. Churchill. 7s. 6d.

Taylor, W. W. The Chemistry of Colloids and Some Technical Applications. 2nd imp. Cr. 8vo. Pp. 328. 1918. Arnold. 8s. 6d.

d. Catalysis.

Henderson, G. G. Catalysis in Industrial Chemistry. 8vo. Pp. 212. 1919. Longmans. 10s.

Jobling, E. Catalysis and Its Industrial Applications. 2nd edn. Cr. 8vo. Pp. 152. 1920. Churchill. 7s. 6d.

Maxted, E. B. Catalytic Hydrogenation and Reduction. Cr. 8vo. Pp. 104. 1919. Churchill. 5s.

Rideal, E. K., and Taylor, H. S. Catalysis in Theory and Practice. 8vo. Pp. 502. 1919. Macmillan. 17s.

e. Ferments.

Oppenheimer, C. Ferments and their Actions. A Text-book on the Chemistry and Physics of Fermentative Changes. Translated by C. A. Mitchell. 2nd edn. in preparation. Griffin.

Schutzenberger, Prof. Fermentation. 5th edn. Cr. 8vo. Pp. 339. 1903. Kegan Paul. 7s. 6d.

f. Electrolysis.

Allmand, A. J. The Principles of Applied Electro-Chemistry. 2nd imp. Demy 8vo. Pp. 547. 1920. Arnold. 25s.

- Elbs, K.** *Electrolytic Preparations. Exercises for Use in the Laboratory by Chemists and Electro-Chemists.* Translated by R. S. Hutton. Demy 8vo. Pp. 110. 1903. Arnold. 6s.
- Hale, A. J.** *The Applications of Electrolysis in Chemical Industry.* 8vo. Pp. 158. 1918. Longmans. 8s.
- *The Manufacture of Chemicals by Electrolysis.* Demy 8vo. Pp. 92. 1919. Constable. 6s.
- Lehfeldt, R. A., and Moore, T. S.** *Electro-Chemistry. Part 1. General Theory.* New imp. Cr. 8vo. Pp. 278. 1920. Longmans. 7s. 6d.
- Rideal, E. K.** *Ozone. (Electro-Chemistry).* Demy 8vo. Pp. 207. 1920. Constable. 12s.
- vi. INORGANIC CHEMISTRY.**
- Caven, R. M., and Lander, G. D.** *Systematic Inorganic Chemistry from the Standpoint of the Periodic Law.* Cr. 8vo. Pp. 383. 1919. Blackie. 7s. 6d.
- Claude, G.** *Liquid Air, Oxygen, Nitrogen.* Translated by H. E. P. Cottrell. New edition in preparation. Churchill.
- Dupré, A., and Hake, W.** *A Short Manual of Inorganic Chemistry.* 3rd edn. Large Cr. 8vo. 1903. Griffin. 7s. 6d.
- Friend, J. N.** (edited by) *A Text-book of Inorganic Chemistry.* 10 vols. Med. 8vo. Vol. 1. *Introduction to Modern Inorganic Chemistry*, by J. N. Friend, H. F. V. Little, W. E. S. Turner. *The Inert Gases*, by H. V. A. Briscoe. 3rd edn. Pp. 400. 1919. 12s. 6d. Vol. 2. *The Alkali Metals*, in preparation. Vol. 3. *The Alkaline Earth Metals*, in preparation. Vol. 4. *Aluminium and its Congeners, including the Rare Earth Metals*, by H. F. V. Little. Pp. 495. 1917. 16s. Vol. 5. *Carbon and its Allies*, by R. M. Caven. Pp. 489. 1917. 15s. Vol. 6. *Nitrogen and its Congeners*, in preparation. Vol. 7. *Sulphur and its Congeners*, in preparation. Vol. 8. *The Halogens and their Allies*, by G. Martin, and E. A. Dancaster. 2nd edn. Pp. 355. 1919. 12s. 6d. Vol. 9. Part 1. *Cobalt, Nickel and the Elements of the Platinum Group*, by J. N. Friend. Pp. 385. 1920. 18s. Vol. 9. Part 2. *Iron and its Compounds*, by J. N. Friend. Pp. 290. 1921. 18s. Vol. 10. *The Metal Animes*, in preparation. Griffin.
- Hart-Smith, J.** *Recent Discoveries in Inorganic Chemistry.* Demy 8vo. Pp. 102. 1919. Cambridge University Press. 4s. 6d.
- Hooton, W. M.** *Inorganic Chemistry.* 7th imp. Cr. 8vo. Pp. 416. E. Arnold. 5s.
- Jago, W.** *Inorganic Chemistry, Theoretical and Practical.* Fcap. 8vo. Pp. 466. 1918. Longmans. 4s. 6d.
- *Inorganic Chemistry, Theoretical and Practical. A Manual for Students in Advanced Classes.* 12th imp. Cr. 8vo. Pp. 490. 1911. Longmans. 6s.
- Jeffery, F. H.** *Notes on Elementary Inorganic Chemistry.* Demy 8vo. Pp. 55. 1914. Cambridge University Press. 3s.
- Jones, C.** *Practical Inorganic Chemistry.* Gl. 8vo. Pp. 250. 1911. Macmillan. 3s.
- Kipping, F. S., and Perkin, W. H.** *Inorganic Chemistry.* Cr. 8vo. Pp. 751. Chambers. 8s. 6d.
- Levy, S. I.** *The Rare Earths: Their Occurrence, Chemistry, and Technology.* New edn. in preparation. Arnold.
- Lewis, E. I.** *Inorganic Chemistry.* 3rd edn. Demy 8vo. Pp. 458. 1921. Cambridge University Press. 9s.
- Lowson, W.** *Preparations and Exercises in Inorganic Chemistry.* Cr. 8vo. Pp. 136. 1914. Methuen. 3s. 6d.
- Ludlam, E. B.** *Outlines of Inorganic Chemistry, with special reference to its Historical Development.* 2nd imp. Cr. 8vo. Pp. 384. 1917. E. Arnold. 5s.

Chemistry

- Mellor, J. W.** *An Introduction to Modern Inorganic Chemistry.* Cr. 8vo. Pp. 700. 1919. Longmans. 7s. 6d.
- *Modern Inorganic Chemistry.* New edn. 8vo. Pp. 930. 1921. Longmans. 12s. 6d.
- Newth, G. S.** *A Text-book of Inorganic Chemistry.* Cr. 8vo. Pp. 738. 1920. Longmans. 9s.
- Oscroft, P. W.** *Inorganic Chemistry for Upper Forms.* 2nd edn. Cr. 8vo. Pp. 504. 1919. Bell. 6s.
- * **Ostwald, W.** *The Principles of Inorganic Chemistry.* Translated by A. Findlay. 4th edn. 8vo. Pp. 836. 1914. Macmillan. 21s.
- Partington, J. R.** *A Text-book of Inorganic Chemistry for University Students.* Demy 8vo. Pp. 1,076. 1921. Macmillan. 25s.
- Perkin, F. M.** *Practical Methods of Inorganic Chemistry.* Cr. 8vo. Pp. 163. 1906. Constable. 3s. 6d.
- Price, T. S.** *Per-acids and their Salts.* 8vo. Pp. 130. 1912. Longmans. 5s.
- Remsen, I.** *An Introduction to the Study of Chemistry: Inorganic Chemistry.* Cr. 8vo. Pp. 604. 1910. Macmillan. 8s. 6d.
- *A Text-book of Inorganic Chemistry.* 8vo. Pp. 876. 1907. Macmillan. 18s.
- Roscoe, Sir H. E., and Harden, A.** *Inorganic Chemistry for Advanced Students.* 2nd edn. Gl. 8vo. Pp. 486. 1915. Macmillan. 5s.
- **and Lunt, J.** *Inorganic Chemistry for Beginners.* New imp. Gl. 8vo. Pp. 266. 1920. Macmillan. 3s. 6d.
- Senter, G.** *A Text-book of Inorganic Chemistry.* 6th edn. Cr. 8vo. Pp. 631. 1919. Methuen. 8s. 6d.
- Shenstone, W. A.** *Elements of Inorganic Chemistry.* Revised by R. G. Durrant. 6th edn. Cr. 8vo. Pp. 538. 1919. E. Arnold. 6s. 6d.
- Spencer, J. F.** *The Metals of the Rare Earths.* 8vo. Pp. 289. 1919. Longmans. 13s.
- Teed, P. L.** *The Chemistry and Manufacture of Hydrogen.* Demy 8vo. Pp. 159. 1919. Arnold. 10s. 6d.
- Walker, J.** *Inorganic Chemistry.* 12th edn. Cr. 8vo. Pp. 327. 1919. Bell. 5s.
- Whiteley, R. L.** *An Elementary Text-book of Inorganic Chemistry.* 2nd edn. Cr. 8vo. Pp. 254. 1911. Methuen. 5s.
- vii. LABORATORY WORK AND ARTS.**
- Dunnicliff, H. B.** *Laboratory Glass-ware Economy: a Practical Manual on the Renovation of Broken Glass Apparatus.* Gl. 8vo. Pp. 104. 1919. Macmillan. 4s.
- Munby, A. E.** *Laboratories: their Planning and Fittings.* Roy. 8vo. Pp. 239. 1921. Bell. 25s.
- Shenstone, W. A.** *The Methods of Glass-Blowing and of Working Silica in the Oxy-gas Flame for the use of Chemical and Physical Students.* 10th imp. Cr. 8vo. Pp. 104. 1918. Longmans. 3s. 6d.
- Woollatt, G. H.** *Laboratory Arts: A Teacher's Handbook dealing with Materials and Tools used in the Construction, Adjustment, and Repair of Scientific Instruments.* 2nd imp. Cr. 8vo. Pp. 204. 1918. Longmans. 4s. 6d.
- Yates, R. F.** *The Home Chemical Laboratory.* Cr. 8vo. Pp. 127. 1920. Frowde & Hodder. 4s. 6d.
- viii. ORGANIC CHEMISTRY.**
- Adie, R. H.** *Introduction to the Carbon Compounds.* 4th imp. Cr. 8vo. Pp. 98. 1912. University Tutorial Press. 4s.
- Armstrong, E. F.** *The Simple Carbo-hydrates and the Glucosides.* 3rd edn. 8vo. Pp. 250. 1919. Longmans. 18s.
- Barnett, E. de B.** *The Preparation of Organic Compounds.* 2nd edn. Demy 8vo. Pp. 290. 1920. Churchill. 10s. 6d.

- Barnett, E. de B.** *A Text-book of Organic Chemistry.* Demy 8vo. Pp. 392. 1920. Churchill. 15s.
- Bernthsen, A.** *A Text-book of Organic Chemistry.* Translated from the German. Edited by J. J. Sudborough. New edn. Cr. 8vo. Pp. 735. 1920. Blackie. 10s. 6d.
- Cohen, J. B.** *Organic Chemistry for Advanced Students.* 3rd edn. 3 vols. Demy 8vo. 1920. Vol. 1. Reactions. Pp. 374. Vol. 2. Structure. Pp. 442. Vol. 3. Synthesis. Pp. 385. Arnold. 18s. each.
- *Practical Organic Chemistry.* Gl. 8vo. Pp. 372. 1920. Macmillan. 4s.
- *Theoretical Organic Chemistry.* Gl. 8vo. Pp. 620. 1920. Macmillan. 7s.
- Clarke, H. T.** *An Introduction to the Study of Organic Chemistry.* Cr. 8vo. Pp. 492. 1914. Longmans. 12s. 6d.
- Dunstan, A. E.** *A First Year Course of Organic Chemistry: The Aliphatic Compounds.* Cr. 8vo. Pp. 168. 1919. Methuen. 4s.
- Fischer, E.** *Introduction to the Preparation of Organic Compounds.* Translated by R. V. Stanford. Cr. 8vo. Pp. 175. 1909. Williams & Norgate. 5s.
- Hale, A. J.** *The Synthetic Use of Metals in Organic Chemistry.* Cr. 8vo. Pp. 169. 1914. Churchill. 6s.
- Hilditch, T. P.** *A Third Year Course of Organic Chemistry. The Heterocyclic Compounds, Carbohydrates, and Terpenes.* Cr. 8vo. Pp. 424. 1914. Methuen. 7s. 6d.
- Keane, C. A.** *Modern Organic Chemistry.* Cr. 8vo. Scott Pub. Co. 7s. 6d.
- Lewis, E. I.** *The Elements of Organic Chemistry.* 4th imp. Cr. 8vo. Pp. 232. 1919. University Tutorial Press. 4s.
- Maclean, H.** *Lecithin and Allied Substances. The Lipins.* Roy. 8vo. Pp. 214. 1918. Longmans. 8s. 6d.
- Meldola, R.** *The Chemical Synthesis of Vital Products and the Inter-relations between Organic Compounds.* Super Roy. 8vo. Pp. 338. 1904. Arnold. 21s.
- Morgan, G. T.** *Organic Compounds of Arsenic and Antimony.* 8vo. Pp. 396. 1918. Longmans. 17s. 6d.
- Neave, G. B., and Heilbron, I. M.** *The Identification of Organic Compounds.* 2nd edn. Cr. 8vo. Pp. 96. 1920. Constable. 4s. 6d.
- Perkin, W. H., and Kipping, F. S.** *Organic Chemistry.* Cr. 8vo. Pp. 684. 1914. Chambers. 8s. 6d.
- Pope, F. G.** *Modern Research in Organic Chemistry.* 2nd edn. Cr. 8vo. Pp. 336. 1919. Methuen. 7s. 6d.
- Price, T. S., and Twiss, D. F.** *A Course of Practical Organic Chemistry.* 8vo. Pp. 254. 1919. Longmans. 6s. 6d.
- Richter, V.** *Organic Chemistry, or Chemistry of the Carbon Compounds.* Vol. 1. Chemistry of the Aliphatic Series. Newly translated by P. E. Spielmann. 2nd edn. Large 8vo. Pp. 735. 1919. Kegan Paul. 25s.
- Stewart, A. W.** *Recent Advances in Organic Chemistry.* 4th edn. Demy 8vo. Pp. 375. 1920. Longmans. 21s.
- Sudborough, J. J., and James, T. C.** *Practical Organic Chemistry.* Cr. 8vo. Pp. 380. 1920. Blackie. 7s. 6d.
- Thole, F. B.** *A Second Year Course of Organic Chemistry. The Carbocyclic Compounds.* Cr. 8vo. Pp. 194. 1912. Methuen. 4s. 6d.
- Titherley, A. W.** *A Laboratory Course of Organic Chemistry: including Qualitative Organic Analysis.* 2nd edn. 8vo. Pp. 244. 1920. Geo. Philip. 6s. 6d.
- Wade, J.** *Introduction to the Study of Organic Chemistry. A Theoretical and Practical Text-book for Students in the Universities and Technical Schools.* New edn. Cr. 8vo. Pp. 646. 1920. Allen & Unwin. 8s. 6d.

- Williams, H. E.** *The Chemistry of Cyanogen Compounds and their Manufacture and Estimation.* 8vo. Pp. 432. 1915. Churchill. 12s. 6d.
- Wren, H.** *The Organometallic Compounds of Zinc and Magnesium.* Cr. 8vo. Pp. 100. 1913. Gurney & Jackson. 2s. 6d.

ix. ANALYTICAL CHEMISTRY.

a. General.

Allen's Commercial Organic Analysis. *A Treatise on the Properties, Proximate Analytical Examinations, and Modes of Assaying the various Organic Chemicals and Products employed in the Arts, Manufactures, Medicines, etc. With Concise Methods for the Detection and Determination of their Impurities, Adulteration, and Products of Decomposition.* By various Specialists. Edited by W. A. Davis, H. Leffmann, and S. S. Sadtler. 4th edn, 9 Vols. 8vo. Vol. 1. Pp. 586. 1909. 28s. Vol. 2. Pp. 530. 1910. 28s. Vol. 3. Pp. 645. 1910. 28s. Vol. 4. Pp. 474. 1910. 28s. Vol. 5. Pp. 713. 1911. 28s. Vol. 6. Pp. 736. 1912. 28s. Vol. 7. Pp. 574. 1913. 28s. Vol. 8. Pp. 696. 1914. 28s. Vol. 9. Bringing up-to-date the articles in the 8 volumes, and with index for the complete 9 volumes. Pp. 854. 1917. 33s. Churchill.

Arup, P. S. *Industrial Organic Analysis for the use of Technical and Analytical Chemists and Students.* 2nd edn. Cr. 8vo. Pp. 484. 1920. Churchill. 12s. 6d.

Baker, T. T. *The Spectroscope: Its Uses in General Analytical Chemistry.* Cr. 8vo. Pp. 138. 1907. Baillièrre. 5s.

Barger, G. *The Simpler Natural Bases.* New edition in preparation. Longmans.

Candy, H. C. H. *Introduction to Chemical Analysis.* Cr. 8vo. Pp. 126. 1905. Churchill. 3s. 6d.

Clarke, H. T. *A Handbook of Organic Analysis: Qualitative and Quantitative.* 3rd edn. Cr. 8vo. Pp. 272. 1920. Arnold. 6s. 6d.

Forster, E. L. B. *Analytical Chemistry as a Profession for Women.* Pocket size. Pp. 135. 1920. Griffin. 3s. 6d.

Gardiner, G. G. *Chemical Analysis, Qualitative and Quantitative. A Text-book for Technical Schools and Colleges.* Post 8vo. Pp. 491. 1914. Black. 7s. 6d.

Henderson, G. G., and Parker, M. A. *An Introduction to Analytical Chemistry.* Cr. 8vo. Pp. 228. 1919. Blackie. 5s.

Johnson, A. E. *The Analyst's Laboratory Companion: A Collection of Tables and Data for Chemists and Students.* 5th edn. Cr. 8vo. Pp. 185. 1921. Churchill. 10s. 6d.

Krauch, C. *Testing of Chemical Reagents for Purity. Their Uses, Methods of Testing for Purity and Commercial Varieties.* Translated from the German. 2nd edn. Demy 8vo. Pp. 368. 1919. Scott, Greenwood. 17s. 6d.

Landauer, J. *Blowpipe Analysis.* English Edition by J. Taylor. 3rd edn. Gl. 8vo. Pp. 190. 1901. Macmillan. 4s. 6d.

Lunge, G. (edited by). *Technical Methods of Chemical Analysis.* English translation edited by C. Keane. 6 vols. Roy. 8vo. New edition in preparation. Gurney & Jackson.

Muter, J. *Short Manual of Analytical Chemistry. Qualitative and Quantitative, Inorganic and Organic.* Edited by J. Thomas. 10th edn. Roy. 8vo. Pp. 237. 1915. Baillièrre. 8s. 6d.

Newth, G. S. *A Manual of Chemical Analysis. Qualitative and Quantitative.* 12th imp. Cr. 8vo. Pp. 488. 1919. Longmans. 9s. 6d.
— *Smaller Chemical Analysis.* Cr. 8vo. Pp. 156. 1919. Longmans. 3s. 6d.

Ostwald, W. *Scientific Foundations of Analytical Chemistry.* Translated by G. McGowan. 3rd edn. Cr. 8vo. Pp. 272. 1908. Macmillan. 7s. 6d.

- Prost, E.** Manual of Chemical Analysis, as applied to the Assay of Fuels, Ores, Metals, Alloys, Salts and other Mineral Products. Translated from the German. Roy. 8vo. Pp. 300. 1904. Scott, Greenwood. 14s. 6d.
- Tognoli, E.** Reagents and Reactions. Translated from the Italian by C. A. Mitchell. Fcap. 8vo. Pp. 236. 1918. Churchill. 6s.
- b. Qualitative Analysis.**
- Briggs, W., and Stewart, R. W.** Qualitative Analysis. 3rd imp. Cr. 8vo. Pp. 172. 1920. University Tutorial Press. 4s. 6d.
- Brown, J. C., and Bengough, G. D.** Practical Chemistry, Qualitative Exercises and Analytical Tables for Students. 6th edn. 8vo. Pp. 86. 1913. Churchill. 2s. 6d.
- Caven, R. M.** Systematic Qualitative Analysis for Students of Inorganic Chemistry. Large Cr. 8vo. Pp. 252. 1919. Blackie. 5s.
- Clowes, F.** Qualitative Analysis and Practical Chemistry. 9th edn. Demy 8vo. Pp. 400. 1920. Churchill. 12s. 6d.
- Fenton, H. J. H.** Notes on Qualitative Analysis. new edn. Cr. 4to. Pp. 161. 1920. Cambridge University Press. 8s.
- Fresenius, T. W.** Introduction to Qualitative Chemical Analysis. 17th edn. of the original work, translated by C. A. Mitchell. Demy 8vo. Pp. 974. 1921. Churchill. 36s.
- Highton, H. P.** An Introduction to Qualitative Analysis. 3rd imp. Cr. 8vo. Pp. 182. 1908. Rivington. 4s.
- Hooton, W. M.** Qualitative and Volumetric Analysis. Demy 8vo. Pp. 90. 1915. E. Arnold. 3s. 6d.
- Perkin, F. M.** Qualitative Chemical Analysis, Organic and Inorganic. 4th edn. Demy 8vo. Pp. 350. 1920. Longmans. 9s.
- Robertson, P. W., and Burleigh, D. H.** Qualitative Analysis in Theory and Practice. 8vo. Pp. 63. 1920. Arnold. 4s. 6d.
- Sexton, A. H.** Outlines of Qualitative Analysis: for the Use of Students. 4th edn. Cr. 8vo. Pp. 191. 1903. Griffin. 3s. 6d.
- Shepherd, J. W.** Qualitative Determination of Organic Compounds. Cr. 8vo. Pp. 364. 1913. University Tutorial Press. 9s. 6d.
- Stieglitz, J.** Elements of Qualitative Chemical Analysis. 2 vols. Demy 8vo. 1919. Vol. 1. Fundamental Principles and their Application. Pp. 312. Vol. 2. Laboratory Manual. Pp. 153. Bell. 8s. 6d. each.
- Thole, F. B.** Qualitative Organic Analysis. Cr. 8vo. Pp. 78. 1912. Methuen. 2s. 6d.
- Thorpe, Sir T. E., and Muir, M. M. P.** Qualitative Chemical Analysis and Laboratory Practice. 12th imp. Cr. 8vo. Pp. 262. 1909. Longmans. 5s. 6d.
- Weston, F. E.** A Scheme for the Detection of the More Common Classes of Carbon Compounds. 8vo. Pp. 116. 1919. Longmans. 4s. 6d.
- c. Quantitative Analysis.**
- Auld, S. J. M.** An Introduction to Quantitative Analysis. Cr. 8vo. Pp. 215. 1912. Methuen. 6s.
- Bailey, G. H.** Elements of Quantitative Analysis. Gl. 8vo. Pp. 256. 1905. Macmillan. 5s.
- Briggs, W., and Bausor, H. W.** Elementary Quantitative Analysis. 2nd imp. Cr. 8vo. Pp. 130. 1919. University Tutorial Press. 3s.
- Clowes, F., and Coleman, J. B.** Quantitative Chemical Analysis. Adapted for Use in the Laboratories of Colleges and Technical Institutes. 11th edn. 8vo. Pp. 604. 1918. Churchill. 18s.
- Crookes, Sir W.** Select Methods in Chemical Analysis (chiefly Inorganic). 4th edn. 8vo. Pp. 762. 1905. Longmans. 22s. 6d.

Cumming, A. C., and Kay, S. A. A Text-book of Quantitative Chemical Analysis. 3rd edn. Med. 8vo. Pp. 1,432. 1919. Gurney & Jackson. 15s.

Highton, H. P. An Introduction to Practical Quantitative Analysis. 2nd edn. Cr. 8vo. Pp. 223. 1906. Rivington. 4s.

Kingscott, P. C. R., and Knight, R. S. G. Methods of Quantitative Organic Analysis. 8vo. Pp. 300. 1914. Longmans. 7s. 6d.

Mellor, J. W. A Treatise on Quantitative Inorganic Analysis: with special Reference to the Analysis of Clays, Silicates, etc. 2nd edn. in preparation. Griffin.

Schoeller, W. R., and Powell, A. R. The Analysis of Minerals and Ores of the Rarer Elements, for Analytical Chemists, Metallurgists and Advanced Students. Med. 8vo. Pp. 249. 1919. Griffin. 16s.

Sexton, A. H. Outlines of Quantitative Analysis: for the Use of Students. 5th edn. Cr. 8vo. Pp. 148. 1907. Griffin. 3s.

d. Volumetric Analysis.

Berry, A. J. Volumetric Analysis. Demy 8vo. Pp. 146. 1915. Cambridge University Press. 8s. 6d.

Briggs, W., and Bausor, H. W. Senior Volumetric Analysis. Cr. 8vo. Pp. 68. 1913. University Tutorial Press. 2s. 3d.

Coppock, J. B. Volumetric Analysis, adapted to the Requirements of Students entering for the Internal and External Examinations of Schools, Institutes, Colleges, and Universities. 2nd edn. Cr. 8vo. Pp. 100. 1920. Pitman. 3s. 6d.

Hampshire, C. H. Volumetric Analysis for Students of Pharmaceutical and General Chemistry. 3rd edn. Cr. 8vo. Pp. 124. 1921. Churchill. 7s. 6d.

Knecht, E., and Hibbert, E. New Reduction Methods in Volumetric Analysis. 2nd edn. Cr. 8vo. Pp. 144. 1918. Longmans. 5s.

Prideaux, E. B. R. The Theory and Use of Indicators. An Account of the Chemical Equilibria of Acids, Alkaloids, and Indicators in Aqueous Solution, with Applications. Demy 8vo. Pp. 390. 1917. Constable. 12s. 6d.

Richards, P. A. E. Practical Chemistry, including Simple Volumetric Analysis and Toxicology. 3rd edn. Cr. 8vo. Pp. 157. 1920. Baillière. 5s.

Sutton, F. A Systematic Handbook of Volumetric Analysis. 11th edition in preparation. Churchill.

Thornton, A., and Pearson, M. Notes on Volumetric Analysis. Med. 8vo. Pp. 88. 1918. Longmans. 3s. 6d.

x. BIOLOGICAL AND PHYSIOLOGICAL CHEMISTRY.

Arrhenius, S. Quantitative Laws in Biological Chemistry. Demy 8vo. Pp. 164. 1915. Bell. 7s. 6d.

Bertrand, G., and Thomas, P. Practical Biological Chemistry. Translated from the 3rd French edition by H. A. Colwell. Demy 8vo. Pp. 379. 1920. Bell. 10s. 6d.

Cathcart, E. P. The Physiology of Protein Metabolism. 2nd edn. Demy 8vo. Pp. 184. 1921. Longmans. 12s. 6d.

Cole, S. W. Practical Physiological Chemistry. Introduction by F. G. Hopkins. 6th edn. Demy 8vo. Pp. 426. 1920. Heffer. 16s.

Cramer, W. Directions for a Practical Course in Chemical Physiology. 4th edn. Cr. 8vo. Pp. 145. 1920. Longmans. 4s. 6d.

Griffiths, A. B. Respiration Proteids. Researches in Biological Chemistry. 8vo. Pp. 126. 1897. Lovell, Reeve. 6s.

Jones, W. Nucleic Acids. Their Chemical Properties and Physiological Conduct. 2nd edn. Demy 8vo. Pp. 158. 1920. Longmans. 9s.

- Moore, B.** *Biochemistry. A Study of the Origin, Reactions and Equilibria of Living Matter.* Demy 8vo. Pp. 348. 1921. Arnold. 21s.
- Milroy, J. A. and T. H.** *Practical Physiological Chemistry.* 3rd edn. in preparation. W. Green.
- Plimmer, R. H. A.** *The Chemical Changes and Products Resulting from Fermentation.* 8vo. Pp. 190. 1903. Longmans. 7s. 6d.
- *Practical Organic and Biochemistry.* Roy. 8vo. Pp. 648. 1918. Longmans. 21s.
- *The Chemical Constitution of the Proteins.* Two Parts. Part 1. Analysis. 3rd edn. Roy. 8vo. Pp. 186. 1917. 7s. Part 2. New edn. in preparation. Longmans.
- Schryver, S. B.** *An Introduction to the Study of Biological Chemistry.* Cr. 8vo. Pp. 340. 1919. Jack. 6s.
- xi. PLANT CONSTITUENTS.**
- Cross, C. F., and Bevan, E. J.** *Cellulose: An Outline of the Chemistry of the Structural Elements of Plants.* With reference to their natural history and industrial uses. Cr. 8vo. Pp. 368. 1918. Longmans. 14s. 6d.
- Cross, C. F., and Bevan, E. J.** *Researches on Cellulose.* 1900-1905. 2nd edn. Cr. 8vo. Pp. 196. 1913. Longmans. 9s.
- *Researches on Cellulose.* 1905-1910. Cr. 8vo. Pp. 184. 1912. Longmans. 9s.
- Haas, P., and Hill, T. G.** *An Introduction to the Chemistry of Plant Products.* Vol. 1. On the Nature and Significance of the Commoner Organic Compounds of Plants. 3rd edn. Demy 8vo. Pp. 428. 1921. Longmans. 16s.
- Henry, T. A.** *The Plant Alkaloids.* 8vo. Pp. 474. 1913. Churchill. 21s.
- Onslow, M. W.** *Practical Plant Biochemistry.* Roy. 8vo. Pp. 182. 1920. Cambridge University Press. 15s.
- Osborne, T. B.** *The Vegetable Proteins.* Roy. 8vo. Pp. 140. 1919. Longmans. 6s. 6d.
- Sohn, C. E.** *Dictionary of the Active Principles of Plants, Alkaloids, Bitter Principles, Glucosides; their Sources, Nature and Chemical Characteristics, etc.* Oblong 4to. Pp. 201. 1894. Bailliére. 5s.

APPLIED AND INDUSTRIAL CHEMISTRY.

i. GENERAL—INCLUDING CHEMICAL ENGINEERING.

- Allen, A. F.** An Introduction to Chemical Engineering. An Elementary Text-book for the use of Students and users of Chemical Machinery. Demy 8vo. Pp. 288. 1920. Pitman, 10s. 6d.
- Blount, B., and Bloxam, A. G.** Chemistry for Engineers and Manufacturers. 2 vols. 2nd edn. Large 8vo. Vol. 1. Chemistry of Engineering, Building, and Metallurgy. Pp. 405. 1918. 14s. Vol. 2. Chemistry of Manufacturing Processes. Pp. 528. 1913. 16s. Griffin.
- Buhler, F. A.** Filters and Filter Presses for the Separation of Liquids and Solids. With additional matter relating to the Theory of Filtration in Sugar Factories and Refineries. By J. J. Eastick. Super Roy. 8vo. Pp. 184. 1914. Norman Rodger. 15s.
- Chemical Manufacturers' Directory of England, Wales and Scotland** for 1921. 8vo. Pp. 250. (April) 1921. Simpkin. 4s. 6d.
- Chemical Trade Year Book and Buyers' Guide, 1920.** Incorporating the Chemical Trade Directory. Demy 8vo. Pp. 220. 1920. Bandon & Morris. 10s.
- Dyson, S. S., and Clarkson, S. S.** Chemical Works: Their Design, Erection, and Equipment. Roy. 8vo. Pp. 207. 1912. Scott, Greenwood. 23s.
- Findlay, A.** Chemistry in the Service of Man. 2nd edn. 8vo. Pp. 288. 1919. Longmans. 10s. 6d.
- Grossmann, J.** The Elements of Chemical Engineering. 2nd edn. Cr. 8vo. Pp. 162. 1913. Griffin. 4s.
- Hausbrand, E.** Drying by Means of Air and Steam. Translated by A. C. Wright. 2nd edn. Cr. 8vo. Pp. 76. 1912. Scott, Greenwood. 6s.
- Evaporating, Condensing, and Cooling Apparatus: Explanations, Formulæ and Tables for Use in Practice. Translated by A. C. Wright. 2nd edn. Demy 8vo. Pp. 428. 1919. Scott, Greenwood. 14s. 6d.
- Hinchley, J. W.** Chemical Engineering. Notes on Grinding, Sifting, Separating and Transporting Solids. Cr. 8vo. Pp. 112. 1914. Churchill. 2s. 6d.
- Lunge, G.** The Technical Chemists' Handbook. Tables and Methods of Analysis for Manufacturers of Inorganic Chemical Products. 2nd edn. Cr. 8vo. Pp. 280. 1916. Gurney & Jackson. 10s. 6d.
- Marlow, T. G.** Drying Machinery and Practice. The Theory and Practice of Drying and Desiccating with description of Machinery and Apparatus. 2nd edn. in preparation. Crosby Lockwood.
- Martin, G., assisted by various Specialists.** Industrial and Manufacturing Chemistry. Roy. 8vo. Vol. 1. Organic. 5th edn. Pp. 750. 1920. 36s. Vols. 2 & 3. 3rd imp. Inorganic. Pp. 515., 498. 1920. 28s. each Vol. Crosby Lockwood.

Applied and Industrial Chemistry

Molinari, E. Treatise on General and Industrial Inorganic Chemistry. Translated from the Italian by T. H. Pope. 2nd edn. Roy. 8vo. Pp. 896. 1920. Churchill. 42s.

— Treatise on General and Industrial Organic Chemistry. Translated from the 3rd Italian edition by T. H. Pope. Part 1. Roy. 8vo. Pp. 471. 1921. Churchill. 30s.

Pilcher, R. B., and Butler-Jones, F. What Industry Owes to Chemical Science. Cr. 8vo. Pp. 166. 1918. Constable. 4s.

Thorne, P. C. L. Chemistry from the Industrial Standpoint. Cr. 8vo. Pp. 260. 1919. Hodder and Stoughton. 4s. 6d.

Thorpe, Sir T. E., assisted by eminent Contributors. A Dictionary of Applied Chemistry. Revised and enlarged edn. in 6 or 7 vols. 8vo. Vol. 1. A to Calcium. Pp. 762. 1921. Vol. 2. Calculi to Explosion. Pp. 725. 1921. Longmans. 60s. each vol.

Tinkler, C. K., and Master, H. Applied Chemistry: A Practical Handbook for Students of Household Science and Public Health. Vol. 1. Water, Detergents, Textiles, Fuels, etc. Med. 8vo. Pp. 292. 1920. Crosby Lockwood. 12s. 6d.

Training and Work of the Chemical Engineer, The. Faraday Society Report, 1917. Demy 8vo. Pp. 60. 1917. Faraday Society. 2s. 6d.

Villavecchia, V. (edited by), assisted by Nine Specialists. Treatise on Applied Analytical Chemistry. Translated by T. H. Pope. 8vo. 1918. Vol. 1. Pp. 492. 21s. Vol. 2. Pp. 552. 25s. Churchill.

Wagner, R. Manual of Chemical Technology. Translated and Edited by Sir W. Crookes from the 13th German edition as remodelled by F. Fischer. 2nd edn. Roy. 8vo. Pp. 992. Reprinted 1904. Churchill. 36s.

ii. WATER.

Coux, H. de la. The Industrial Uses of Water, Composition, Effects, Troubles, Remedies, Residuary Waters, Purification, Analysis. Translated. Roy. 8vo. Pp. 304. 1903. Scott, Greenwood. 12s. 6d.

Mitchell, C. A. Mineral and Aerated Waters, and the Machinery for their Manufacture. Demy 8vo. Pp. 241. 1913. Constable. 9s.

Paul, J. H. Boiler Chemistry and Feed Water Supplies. 8vo. Pp. 252. 1919. Longmans. 14s.

Wilson, H. M., and Calvert, H. T. A Text-Book on Trade Waste Waters. Their Nature and Disposal. Med. 8vo. Pp. 352. 1913. Griffin. 21s.

iii FERMENTATION : BREWING : ALCOHOL.

Baker, J. L. The Brewing Industry. Cr. 8vo. Pp. 191. 1905. Methuen. 5s.

Bater, C. H. Brewing Calculations, Gauging and Tabulation, Formulæ, Tables, and General Information for Brewers, etc. 64mo. Pp. 340. 1914. Spon. 2s.

Brown, A. J. Laboratory Studies for Brewing Students, a Systematic Course of Practical Work in the Scientific Principles underlying the Processes of Malting and Brewing. 8vo. Pp. 212. 1904. Longmans. 9s.

Chapman, A. C. Brewing. Roy. 16mo. Pp. 139. 1912. Cambridge University Press. 2s. 6d.

Harden, A. Alcoholic Fermentation. New Edition in preparation. Longmans.

Jørgensen, A. Micro-Organisms and Fermentation. Translated by S. H. Davies. 5th edn. Demy 8vo. Pp. 500. 1911. Griffin. 18s.

- Lafar, F.** *Technical Mycology: The Utilisation of Micro-organisms in the Arts and Manufactures.* Translated by C. T. C. Salter. 2 vols. Large 8vo. Vol. 1., Schizomycetic Fermentation. Pp. 328. 1910. 18s. Vol. 2., Eumycetic Fermentation. Pp. 568. 1911. 30s. Griffin.
- McIntosh, J. G.** *Industrial Alcohol. A Practical Manual on the Production and Use of Alcohol for Industrial Purposes and for Use as a Heating Agent, as an Illuminant and as a Source of Motive Power.* Demy 8vo. Pp. 250. 1907. Scott, Greenwood. 8s. 6d.
- Matthews, C. G.** *Manual of Alcoholic Fermentation and the Allied Industries.* Cr. 8vo. Pp. 311. 1901. Arnold. 8s. 6d.
- **and Lott, F. E.** *The Microscope in the Brewery and Malthouse.* 2nd edn. Roy. 8vo. Pp. 252. 1899. Allen and Unwin. 21s.
- Mitchell, C. A.** *Vinegar: Its Manufacture and Examination.* Large Cr. 8vo. Pp. 217. 1916. Griffin. 10s. 6d.
- Rideal, S., and others.** *The Carbohydrates and Alcohol.* Demy 8vo. Pp. 234. 1920. Baillière. 12s. 6d.
- Simmonds, C.** *Alcohol. Its Production, Properties, Chemistry, and Industrial Applications, with Chapters on Methyl Alcohol, Fusel Oil, and Spirituous Beverages.* 8vo. Pp. 594. 1919. Macmillan. 21s.
- Sykes, W. J.** *Principles and Practice of Brewing. For the Use of Students and Practical Men.* Revised by A. R. Ling. 3rd edn. Pp. 606. 1907. Griffin. 25s.
- Wright, H. E.** *A Handy Book for Brewers. A Practical Guide to the Art of Brewing and Malting.* 3rd edn. Large Cr. 8vo. Pp. 578. 1907. Crosby Lockwood. 14s.
- iv. SUGAR AND ITS MANUFACTURE.**
- Geerligs, H. C. P.** *Methods of Chemical Control in Cane Sugar Factories.* new edn. Roy. 8vo. 1917. Norman Rodger. 10s.
- Geerligs, H. C. P.** *Practical White Sugar Manufacture directly from the Cane.* Roy. 8vo. Pp. 177. 1915. Norman Rodger. 12s.
- *Cane Sugar and Its Manufacture.* Super Roy. 8vo. Pp. 352. 1909. Norman Rodger. 12s.
- *The World's Cane Sugar Industry. Past and Present.* Super Roy. 8vo. Pp. 400. 1912. Norman Rodger. 12s.
- Harloff, W. H. T. and Schmidt, H.** *Plantation White Sugar Manufacture.* Translated from the Dutch by J. P. Ogilvie. Cr. 8vo. Pp. 140. 1913. Norman Rodger. 7s. 6d.
- Heriot, T. H. P.** *The Manufacture of Sugar from the Cane and Beet.* Demy 8vo. Pp. 436. 1920. Longmans. 24s.
- *Science in Sugar Production: An Introduction to the Methods of Chemical Control.* Roy. 8vo. Pp. 104. 1917. Norman Rodger. 6s.
- Koppeschaar, E.** *Evaporation in the Cane and the Beet Sugar Factory. A Theoretical and Practical Treatise.* Roy. 8vo. Pp. 116. 1914. Norman Rodger. 7s. 6d.
- McIntosh, J. G.** *The Technology of Sugar: Practical Treatise on the Modern Methods of Manufacture of Sugar from the Sugar Cane and Sugar Beet.* 3rd edn. Demy 8vo. Pp. 540. 1916. Scott, Greenwood. 14s. 6d.
- Mackenzie, J. E.** *The Sugars and their Simple Derivatives.* Med. 8vo. Pp. 250. 1913. Gurney and Jackson. 7s. 6d.
- Martineau, G.** *Sugar: Cane and Beet.* Cr. 8vo. Pp. 164. 1909. Pitman. 3s.
- Maxwell, F.** *Sulphitation in White Sugar Manufacture.* Demy 8vo. 1916. Norman Rodger. 7s. 6d.
- Newlands, J. A. R., and B. E. R.** *Sugar: A Handbook for Planters and Refiners, being a comprehensive Treatise on the Culture of Sugar-yielding Plants, and on the Manufacture, Refining, and Analysis of Cane, Palm, Maple, Melon, Beet, etc.* 8vo. Pp. 876. 1909. Spon. 30s.

v. COCOA AND CHOCOLATE.

- Knapp, A. W.** *Cocoa and Chocolate. Their History from Plantation to Consumer.* Demy 8vo. Pp. 213. 1920. Chapman and Hall. 12s. 6d.
- Whymper, R.** *Cocoa and Chocolate: Their Chemistry and Manufacture.* 2nd edn. 8vo. Pp. 590. 1921. Churchill. 42s.

vi. FOODS; FLOUR AND BREAD MAKING, etc.

- Amos, P. A.** *Processes of Flour Manufacture.* Cr. 8vo. Pp. 292. 1919. Longmans. 6s. 6d.
- Bolton, E. R., and Revis, C.** *Fatty Foods: Their Practical Examination.* 8vo. Pp. 384. 1912. Churchill. 10s. 6d.
- Grant, J.** *The Chemistry of Bread Making.* 2nd edn. Cr. 8vo. Pp. 232. 1917. Arnold. 6s.
- Häusner, A.** *The Manufacture of Preserved Foods and Sweetmeats. Translated from the German.* 2nd edn. Cr. 8vo. Pp. 225. 1912. Scott, Greenwood. 8s. 6d.
- Kozmin, P. A.** *Flour Milling. Translated from the Russian.* 2nd edn. Roy. 8vo. Pp. 594. Routledge. 25s.
- Rew, Sir R. H.** *Food Supplies in Peace and War.* Cr. 8vo. Pp. 192. 1920. Longmans. 6s. 6d.
- Tibbles, W.** *Foods: their Origin, Composition, and Manufacture.* Demy 8vo. Pp. 958. 1912. Baillière. 20s.
- Wood, T. B.** *The Story of A Loaf of Bread.* Roy. 16mo. Pp. 147. 1913. Cambridge University Press. 2s. 6d.

vii. GLUES, AGGLUTINANTS, CASEIN, etc.

- Brunner, R.** *The Manufacture of Lubricants, Shoe Polishes, and Leather Dressings. Translated from the German.* 2nd edn. Cr. 8vo. Pp. 188. 1916. Scott, Greenwood. 8s. 6d.

Lambert, T. *Glue, Gelatine, and their Allied Products.* 2nd edn. Cr. 8vo. Pp. 165. 1920. Griffin. 6s.

— *Bone Products and Manures.* 2nd edn. Demy 8vo. Pp. 172. 1913. Scott, Greenwood. 8s. 6d.

Rideal, S. *Glue and Glue Testing.* 2nd edn. Demy 8vo. Pp. 196. 1914. Scott, Greenwood. 12s. 6d.

Scherer, R. *Casein: Its Preparation and Technical Utilisation.* 2nd edn. Demy 8vo. Pp. 182. 1911. Scott, Greenwood. 8s. 6d.

Standage, H. C. *Agglutinants and Adhesives of all kinds for all Purposes.* Demy 8vo. Pp. 273. 1907. Constable. 7s. 6d.

— *Sealing-Waxes, Wafers and Other Adhesives for the Household, Office, Workshop and Factory.* Cr. 8vo. Pp. 96. 1902. Scott, Greenwood. 6s.

viii. DRUGS AND DISINFECTANTS.

Christian, M. *Disinfection and Disinfectants. Translated from the German.* Cr. 8vo. Pp. 112. 1913. Scott, Greenwood. 6s.

May, P. *The Chemistry of Synthetic Drugs.* 3rd edn. 8vo. Pp. 264. 1921. Longmans. 12s. 6d.

ix. OILS, FATS, WAXES, SOAP MANUFACTURE, MARGARINE, etc.

Andés, L. E. *Animal Fats and Oils.* 3rd edn. Revised by H. B. Stocks. 8vo. Pp. 323. 1920. Scott, Greenwood. 15s.

— *Drying Oils, Boiled Oil, and Solid and Liquid Dryers.* 2nd edn. Demy 8vo. Pp. 352. 1917. Scott, Greenwood. 14s. 6d.

— *Oil Colours and Printers' Inks.* Translated from the German. 2nd edn. Demy 8vo. Pp. 230. 1918. Scott, Greenwood. 10s. 6d.

— *Vegetable Fats and Oils. Their Practical Preparation, Purification and Employment for Various Purposes, their Properties, Adulteration and Examination.* Translated

Applied and Industrial Chemistry.

- by Charles Salter. 3rd edn. Demy 8vo. Pp. 340. 1917. Scott, Greenwood. 14s. 6d.
- Anon.** Manual of Toilet Soap Making: comprising Toilet Soaps, Medicated Soaps, and other Specialities. 2nd edn. Roy. 8vo. Pp. 356. Scott, Greenwood. 21s.
- Carpenter, W. L.** A Treatise on the Manufacture of Soap and Candles, Lubricants and Glycerine. New edn. in preparation. Spon.
- Chalmers, T. W.** The Production and Treatment of Vegetable Oils, including the Refining and Hydrogenation of Oils, Generation of Hydrogen, Soap Making, Recovery and Refining of Glycerine, and the Splitting of Oils. 2nd edn. Cr. 4to. Pp. 164. 1919. Constable. 21s.
- Clayton, W.** Margarine: Manufacture, Analysis, etc. Demy 8vo. Pp. 198. 1920. Longmans. 14s.
- Cowell, W. B.** Pure Air, Ozon and Water. A Practical Treatise of their Utilisation and Value in Oil, Grease, Soap, Paint, Glue and other Industries. Cr. 8vo. Pp. 85. 1900. Scott, Greenwood. 6s.
- "Expert Oil Refiner."** The Practical Compounding of Oils, Tallow and Grease for Lubrication, etc. 2nd edn. Demy 8vo. Pp. 100. 1907. Scott, Greenwood. 8s. 6d.
- Friend, J. N.** The Chemistry of Linseed Oil. Cr. 8vo. Pp. 104. 1917. Gurney and Jackson. 2s. 6d.
- Fryer, P. J., and Weston, F. E.** Technical Handbook of Oils, Fats, and Waxes. Demy 8vo. Vol. 1., Chemical and General. 3rd edn. Pp. 290. 1920. 15s. Vol. 2., Practical and Analytical. Pp. 314. 1918. 15s. Cambridge University Press.
- Hurst, G. H.** Soaps: A Practical Manual of the Manufacture of Domestic, Toilet, and other Soaps. 2nd edn. Demy 8vo. Pp. 390. 1907. Scott, Greenwood. 14s. 6d.
- Textile Soaps and Oils. 3rd edn. Revised by W. H. Simmons. 8vo. Pp. 208. 1921. Scott, Greenwood. 10s. 6d.
- Koppe, S. W.** Glycerine: Its Production, Uses, and Examination. For chemists, perfumers, soap-makers, pharmacists, and explosives technologists. Translated by W. H. Simmons. Cr. 8vo. Pp. 260. 1915. Scott, Greenwood. 8s. 6d.
- Lewkowitsch, J.** Chemical Technology and Analysis of Oils, Fats, and Waxes. Edited by G. H. Warburton. 6th edn. 3 vols. Med. 8vo. Vol. 1. Pp. 700. 1921. 36s. Vols. 2 and 3 in the Press. Macmillan.
- Laboratory Companion to Fats and Oils Industries. 8vo. Pp. 160. 1901. Macmillan. 7s. 6d.
- Martin, G.** Animal and Vegetable Oils, Fats, and Waxes. Their Manufacture, Refining, and Analysis, including the Manufacture of Candles. Margarine and Butter. Roy. 8vo. Pp. 228. 1920. Crosby Lockwood. 12s. 6d.
- Mitchell, C. A.** Edible Oils and Fats. 8vo. Pp. 172. 1918. Longmans. 7s. 6d.
- Oils: Animal, Vegetable, Essential, and Mineral. Cr. 8vo. Pp. 146. 1909. Pitman. 3s.
- Parry, E. J.** The Chemistry of Essential Oils and Artificial Perfumes. 2 Vols. 3rd edn. Roy. 8vo. Vol. 1. Monographs on Essential Oils. Pp. 525. 1918. 25s. Vol. 2. Constituents of Essential Oils, Synthetic Perfumes and Isolated Aromatics. The Analysis of Essential Oils. Pp. 351. 1919. 17s. 6d. Scott, Greenwood.
- The Raw Materials of Perfumery; their Nature, Occurrence and Employment. Cr. 8vo. Pp. 122. 1921. Pitman. 3s.
- Pickering, G. F.** Aids in the Commercial Analysis of Oils, Fats, and their Manufactured Products. A Laboratory Handbook. Med. 8vo. Pp. 141. 1917. Griffin. 7s. 6d.
- Sherriff, F. F.** The Oil Merchants' Manual and Oil Trade Ready Reckoner. 2nd edn. Demy 8vo. Pp. 214. 1904. Scott, Greenwood. 8s. 6d.

- Simmons, W. H.** Soap. Its Composition, Manufacture, and Properties. Cr. 8vo. Pp. 133. 1917. Pitman. 3s.
- and **Appleton, H. A.** The Handbook of Soap Manufacture. Demy 8vo. Pp. 160. 1908. Scott, Greenwood. 9s. 6d.
- and **Mitchell, C. A.** Edible Fats and Oils: Their Composition, Manufacture, and Analysis. Demy 8vo. Pp. 150. 1911. Scott, Greenwood. 8s. 6d.
- Southcombe, J. E.** Chemistry of the Oil Industries. Demy 8vo. Pp. 213. 1913. Constable. 9s.
- Watt, A.** Soap Making. The Manufacture of Hard and Soft Soaps, Toilet Soaps, etc. 7th edn. Cr. 8vo. 1920. Crosby Lockwood. 8s. 6d.
- Wright, C. R. A.** Animal and Vegetable Fixed Oils, Fats, Butters, and Waxes: their Preparation and Properties, and the Manufacture therefrom of Candles, Soaps, and other Products. 3rd edn. Revised and Enlarged by C. A. Mitchell. Large 8vo. Pp. 953. 1921. Griffin. 56s.
- x. PIGMENTS, PAINTS, VARNISHES, RESINS, etc.**
- “An Analytical Chemist” (compiled by). Recipes for the Colour, Paint, Varnish, Oil, Soap and Drysaltery Trades. 2nd edn. Demy 8vo. Pp. 330. 1912. Scott, Greenwood. 12s. 6d.
- Andés, L. E.** Iron-Corrosion, Anti-Fouling and Anti-Corrosive Paints. Translated. 2nd edn. Demy 8vo. Pp. 300. 1918. Scott, Greenwood. 15s.
- Bersch, J.** Manufacture of Mineral and Lake Pigments. Translated by A. C. Wright. Demy 8vo. Pp. 476. 1901. Scott, Greenwood. 14s. 6d.
- Church, A. H.** The Chemistry of Paints and Painting. 3rd edn. Cr. 8vo. Pp. 388. Seeley. 7s. 6d.
- Dieterich, K.** The Analysis of Resins, Balsams and Gum Resins. Translated from the German. 2nd edn. revised by H. B. Stocks. 8vo. Pp. 447. 1920. Scott, Greenwood. 17s. 6d.
- Friend, J. N.** An Introduction to the Chemistry of Paints. Cr. 8vo. Pp. 214. 1910. Longmans. 5s.
- Hurst, G. H.** Dictionary of Chemicals and Raw Products used in the Manufacture of Paints, Colours, Varnishes and Allied Preparations. 2nd edn. Demy 8vo. Pp. 378. 1917. Scott, Greenwood. 12s. 6d.
- Ingle, H., and Sutcliffe, J. A. L.** A Manual of Oils, Resins, and Paints: for Students and Practical Men. Analysis and Valuation. Cr. 8vo. Pp. 138. 1915. Griffin. 4s.
- Jennison, H.** The Manufacture of Lake Pigments from Artificial Colours. 2nd edn. Demy 8vo. Pp. 180. 1920. Scott, Greenwood. 15s.
- Laurie, A. P.** Facts about Processes, Pigments, and Vehicles. A Manual for Art Students. Cr. 8vo. Pp. 142. 1895. Macmillan. 4s.
- McIntosh, J. G.** The Manufacture of Varnishes and Kindred Industries. Based on and including the “Drying Oils and Varnishes,” by A. Livache. 3 Vols. Demy 8vo. Vol. 1. The Crushing, Refining and Boiling of Linseed Oil and other Varnish Oils. 3rd edn. Pp. 500. 1919. 17s. 6d. Vol. 2. Varnish Materials and Oil Varnish Making. 2nd edn. Pp. 220. 1908. 12s. 6d. Vol. 3. Spirit Varnishes and Spirit Varnish Materials. 2nd edn. Pp. 482. 1911. 14s. 6d. Scott, Greenwood.
- Morrell, R. S., and Waele, A. de.** Rubber, Resins, Paints and Varnishes. Demy 8vo. Pp. 248. 1921. Baillière. 12s. 6d.
- Parry, E. J.** Gums and Resins. Their Occurrence, Properties, and Uses. Cr. 8vo. Pp. 112. 1918. Pitman. 3s.

Parry, E. J., and Coste, J. H. The Chemistry of Pigments. Demy 8vo. Pp. 280. 1902. Scott, Greenwood. 12s. 6d.

Petit, G. The Manufacture and Comparative Merits of White Lead and Zinc Paints. Translated from the French. Cr. 8vo. Pp. 100. 1907. Scott, Greenwood. 5s.

Schweizer, V. The Distillation of Resins. The Preparation of Resin Products, Lamp Black, Printing Inks, etc. Translated from the German. 2nd edn. Demy 8vo. Pp. 220. 1917. Scott, Greenwood. 12s. 6d.

Smith, J. C. The Manufacture of Paint. A Practical Handbook for Paint Manufacturers, Merchants and Painters. 2nd edn. Demy 8vo. Pp. 300. 1915. Scott, Greenwood. 12s. 6d.

Zerr, G., and Rubencamp, R. A Treatise on Colour Manufacture. A Guide to the Preparation, Examination, and Application of all the Pigment Colours in Practical Use. Translated by C. Mayer. Large 8vo. Pp. 621. 1908. Griffin. 36s.

xi. RUBBER, GUTTA PERCHA, etc.

Akers, C. E. The Rubber Industry in Brazil and the Orient. Cr. 8vo. Pp. 335. 1914. Methuen. 7s. 6d.

Beadle, C., and Stevens, H. P. Rubber. Production and Utilisation of the Raw Product. 2nd edn. Cr. 8vo. Pp. 150. 1915. Pitman. 3s.

Caspari, W. A. India Rubber Laboratory Practice. Cr. 8vo. Pp. 204. 1914. Macmillan. 6s. 6d.

Christy, C. The African Rubber Industry. Demy 8vo. Pp. 268. 1911. Bale & Danielsson. 12s. 6d.

Clouth, F. Rubber, Gutta Percha, and Balata. Roy. 8vo. Pp. 252. 1903. MacLaren. 12s. 6d.

Dubosc, A., and Luttringer, A. Rubber: Its Production, Chemistry, and Synthesis in the Light of Recent

Research. A Practical Handbook for the use of Rubber Cultivators, Chemists, and others. English edition by E. W. Lewis. Med. 8vo. Pp. 393. 1918. Griffin. 21s.

Heil, A., and Esch, W. The Manufacture of Rubber Goods. Translated by E. W. Lewis. 2nd edn. 8vo. Pp. 236. 1919. Griffin. 12s. 6d.

McIntosh, J. G. India Rubber and Gutta Percha. Based on the French Work of T. Seeligmann, G. L. Torrilhon and H. Falconnet. 2nd edn. Roy. 8vo. Pp. 400. 1910. Scott, Greenwood. 14s. 6d.

Porritt, B. D. The Chemistry of Rubber. Cr. 8vo. New edition in preparation. Gurney and Jackson.

Potts, H. E. The Chemistry of the Rubber Industry. Demy 8vo. Pp. 163. 1915. Constable. 7s. 6d.

Schidrowitz, P. Rubber. 2nd edn. Demy 8vo. Pp. 319. 1916. Methuen. 15s.

Terry, H. L. India Rubber and Its Manufacture: with Chapters on Gutta Percha and Balata. 3rd imp. Ex. Cr. 8vo. Pp. 302. 1919. Constable. 8s. 6d.

Torrey, J., and Manders, A. S. (edited by). The Rubber Industry. Demy 8vo. Pp. 470. 1911. Pitman. 15s. 6d.

Weber, C. O. The Chemistry of India-rubber. Including the Outlines of A Theory on Vulcanisation. 5th edn. Large 8vo. Pp. 324. 1919. Griffin. 18s.

Whitby, G. S. Plantation Rubber and the Testing of Rubber. Demy 8vo. Pp. 575. 1920. Longmans. 28s.

xii. FUELS, SMOKE PREVENTION, etc.

Barker, A. H. Domestic Fuel Consumption. Demy 8vo. Pp. 169. 1920. Constable. 14s.

Booth, W. H., and Kershaw, J. B. C. Smoke Prevention and Fuel Economy. Demy 8vo. Pp. 194. 1904. Constable. 10s. 6d.

Applied and Industrial Chemistry.

- Brame, J. S. S.** Fuel: Solid, Liquid, and Gaseous. 2nd edn. Demy 8vo. Pp. 372. 1917. Arnold. 15s.
- Brislee, F. J.** An Introduction to the Study of Fuel. A Text-book for those entering the Engineering, Chemical and Technical Industries. 2nd imp. Demy 8vo. Pp. 291. 1920. Constable. 9s. 6d.
- Cohen, J. B., and Ruston, A. G.** Smoke: A Study of Town Air. Demy 8vo. Pp. 96. 1912. E. Arnold. 5s.
- Coste, J. H., and Andrews, E. R.** The Examination and Thermal Value of Fuel: Gaseous, Liquid, and Solid. Cr. 8vo. Pp. 224. 1914. Griffin. 7s. 6d.
- Kershaw, J. B. C.** Fuel, Water, and Gas Analysis for Steam Users. 2nd edn. Demy 8vo. Pp. 212. 1919. Constable. 12s. 6d.
- The Use of Low-Grade and Waste Fuels for Power Generation. Demy 8vo. Pp. 212. 1920. Constable. 17s.
- Lewes, V. B.** Liquid and Gaseous Fuels and the Part they Play in Modern Power Production. Edited by J. B. C. Kershaw. 2nd edn. Ex. Cr. 8vo. Pp. 348. 1920. Constable. 12s. 6d.
- Nicholson, W.** Smoke Abatement. A Manual for the use of Manufacturers, Inspectors, Medical Officers of Health, Engineers, etc. Cr. 8vo. Pp. 169. 1905. Griffin. 7s. 6d.
- Popplewell, W. C.** The Prevention of Smoke, Combined with the Economical Combustion of Fuel. Demy 8vo. Pp. 190. 1901. Scott, Greenwood. 8s. 6d.
- Taylor, H. S.** Fuel Production and Utilization. Med. 8vo. Pp. 313. 1920. Baillière. 10s. 6d.
- xiii. LIQUID FUELS AND THEIR PRACTICAL USE.**
- Booth, W. H.** Liquid Fuel and its Apparatus. Theory, Principles, and Practice: Tables and Data. 2nd edn. Demy 8vo. Pp. 308. 1914. Constable. 9s.
- Liquid Fuel and its Combustion. Imperial 8vo. Pp. 431. 1903. Constable. 24s.
- Butler, E.** Oil Fuel: Its Supply, Composition, and Application. 4th edn. Cr. 8vo. Pp. 326. 1921. Griffin. 12s. 6d.
- Hodgett, E. A. B.** (compiled by). Liquid Fuel for Mechanical and Industrial Purposes. 8vo. Pp. 142. 1890. Spon. 5s.
- Moore, H.** Liquid Fuels for Internal Combustion Engines. A Practical Treatise for Engineers and Chemists. 2nd edn. Demy 8vo. Pp. 221. 1920. Crosby Lockwood. 15s.
- Sothern, J. W. M.** Oil Fuel Burning in Marine Practice. A Manual of Practical Instruction in Oil Fuel Burning. Roy. 8vo. Pp. 198. 1920. Jas. Munro. 30s.
- xiv. PRODUCER GAS: ACETYLENE.**
- Dowson, J. E., and Larter, A. T.** Producer Gas. 4th edn. Demy 8vo. Pp. 379. 1920. Longmans. 21s.
- Leeds, F. H., and Butterfield, W. J. A.** Acetylene: The Principles of its Generation and Use. 3rd edn, in preparation. Griffin.
- Sexton, A. H.** Producer Gas. A Sketch of the Properties, Manufacture, and Uses of Gaseous Fuel. Demy 8vo. New edn, in preparation. Scientific Pub. Co. 10s.
- xv. PETROLEUM AND MINERAL OILS.**
- Campbell, A.** Petroleum Refining. 2nd edition in preparation. Griffin.
- Evans, E. A.** Lubricating and Allied Oils. A Handbook for Chemists, Engineers and Students. Demy 8vo. Pp. 144. 1921. Chapman & Hall. 9s. 6d.
- Greene, J. A.** (edited by). A Treatise on British Mineral Oil. Geological, by E. H. C. Craig;

- Retorting**, by W. R. Ormandy and F. M. Perkin. Refining, by A. Campbell. Chemical, by A. E. Dunstan. Power, by A. H. Seabrook. Large 8vo. Pp. 244. 1919. Griffin. 21s.
- Gregorius, R.** Mineral Waxes: Their Preparation and Uses. Translated from the German. Cr. 8vo. Pp. 250. 1908. Scott, Greenwood. 7s.
- Gooday, W. E.** Petrol and Petroleum Spirits. A Description of their Sources, Preparation, Examination and Uses. Demy 8vo. Pp. 147. 1918. Arnold. 10s. 6d.
- Hicks, J. A.** The Laboratory Book of Mineral Oil Testing. 3rd edn. Revised by A. G. V. Berry. Cr. 8vo. Pp. 93. 1918. Griffin. 3s. 6d.
- Hurst, G. H.** Lubricating Oils, Fats, and Greases: Their Origin, Preparation, Properties, Uses, and Analyses. 3rd edn. Demy 8vo. Pp. 384. 1911. Scott, Greenwood. 12s. 6d.
- Key, A. C.** A Primer on the Storage of Petroleum Spirit and Carbide of Calcium, for the use of Local Inspectors and Motorists. 2nd edn. Cr. 8vo. Pp. 143. 1921. Griffin. 5s.
- Liddgett, A.** Petroleum. Cr. 8vo. Pp. 175. 1919. Pitman. 3s.
- Redwood, Sir B., and Others.** A Treatise on Petroleum. 4 vols. Fourth edition in preparation. Griffin.
- **and Eastlake, A.** The Petroleum Technologist's Pocket Book. Pocket size. Pp. 475. 1915. Griffin. 10s. 6d.
- Redwood, I. I.** A Practical Treatise on Mineral Oils and their By-Products, including the Scotch Shale Oil Industry, etc. 8vo. Pp. 336. 1914. Spon. 15s.
- **Lubricants, Oils, and Greases:** Treated theoretically, and giving practical information regarding their Composition, Uses, and Manufacture. 8vo. 1918. Spon. 7s. 6d.
- Scheithauer, W.** Shale Oils and Tars and their Products. Translated from the German. Demy 8vo. Pp. 183. 1913. Scott, Greenwood. 9s. 6d.
- Talbot, F. A.** The Oil Conquest of the World. Demy 8vo. Pp. 320. 1914. Heinemann. 6s.
- Thomson, J. H., and Redwood, Sir B.** The Petroleum Lamp. Cr. 8vo. Pp. 111. 1902. Griffin. 1s. 6d.
- **A Handbook on Petroleum, for Inspectors under the Petroleum Acts, &c.** 3rd edn. Large 8vo. Pp. 359. 1913. Griffin. 10s. 6d.
- Tinkler, C. K., and Challenger, F.** The Chemistry of Petroleum and its Substitutes. A Practical Handbook. Med. 8vo. Pp. 368. 1919. Crosby Lockwood. 15s.
- xvi. **COAL: BRIQUETTING, ETC.**
- Bone, W. A.** Coal and its Scientific Uses. 2nd imp. 8vo. Pp. 506. 1919. Longmans. 22s. 6d.
- Franke, G.** Handbook of Briquetting. Translated by F. C. A. H. Lantsberry. 2 vols. Med. 8vo. Vol. 1. Briquetting of Coals, Brown Coals, and other Fuels. Pp. 659. 1917. 36s. Vol. 2. Briquetting and Agglomeration of Ores, Metallurgical Products, Metal Swarf, and Similar Materials. Pp. 225. 1918. 15s. Griffin.
- Putsch, A.** Gas and Coal-Dust Firing: A Critical Review of the Various Appliances Patented in Germany for this purpose from 1885 to 1895. Translated from the German by C. Salter. Demy 8vo. Pp. 130. 1901. Scott, Greenwood. 6s.
- Robertson, J. B.** The Chemistry of Coal. Cr. 8vo. Pp. 104. 1919. Gurney & Jackson. 3s. 6d.
- Stopes, M. C., and Wheeler, R. V.** Monograph on the Constitution of Coal. Roy. 4to. Pp. 58. 1918. H. M. Stationery Office. 2s.

- Summers, A. L.** All About Anthracite: The World's Premier Coal. Demy 8vo. Pp. 124. 1919. Technical Pub. Co. 7s. 6d.
- Tonge, J.** Coal. Ex. Cr. 8vo. Pp. 281. Constable. 7s. 6d.
- xvii. **GAS MANUFACTURE: COAL TAR AND ITS PRODUCTS.**
- Barnett, E. de B.** Anthracene and Anthraquinone. Demy 8vo. 1p. 448. 1921. Baillière. 25s.
- Biddulph-Smith, T.** Coke-Oven and By-Product Works Chemistry. Demy 8vo. Pp. 190. 1921. Griffin. 21s.
- Brooke, T.** Modern Retort Settings. Their Construction and Working. Demy 8vo. Pp. 212. 1912. Benn Bros. 9s.
- Christopher, J. E., and Byrom, T. H.** Modern Coking Practice: including the Analysis of the Materials and Products. 3rd edn. 2 vols. Demy 8vo. 1921. Vol. 1. Raw Materials and Coke. Pp. 142. Vol. 2. By-Products. Pp. 148. Crosby Lockwood. 10s. 6d. each vol.
- Cooper, E. S.** By-Product Coking. New edn. in preparation. Benn Bros.
- Findlay, A.** The Treasures of Coal Tar. 2nd edn. Cr. 8vo. Pp. 137. 1918. Allen & Unwin. 4s. 6d.
- Gardner, W. M.** The British Coal Tar Industry: its Origin, Development and Decline. Med. 8vo. Pp. 436. 1915. Williams & Norgate. 12s. 6d.
- Hornby, J.** Gas Manufacture. 8th edn. Demy 8vo. Pp. 434. 1920. Bell. 12s.
- Humphrys, N. H.** Construction and Management of Small Gas Works, with a Section on Costs and Capacity of Works, by J. H. Brearley. Cr. 8vo. Pp. 265. 1911. Benn Bros. 9s.
- Lange, K. R.** By-Products of Coal-Gas Manufacture. Translated from the German. Cr. 8vo. Pp. 164. 1915. Scott, Greenwood. 6s.
- Lewes, V. B.** The Carbonisation of Coal. A Scientific Review of the Formation, Composition and Destructive Distillation of Coal for Gas, Coke and By-Products, with an addition on Recent Developments by A. B. Searle. 2nd edn. Demy 8vo. Pp. 310. 1918. Benn Bros. 12s. 6d.
- Lunge, G.** Coal Tar and Ammonia. 5th edn. 8vo. In 3 Parts. Pp. 1,718. 1916. Gurney & Jackson. 75s.
- Malatesta, G.** Coal-Tar and their Derivatives. The Production of Tars from Gas Coals, Coke Ovens, Water Gas, Oil Gas, Lignite, Wood and Peat. The Manufacture of Pitch, Asphalt, and Bitumen; and the Chemical Examination and Analysis of the Raw Materials and By-Products of the Industry. Translated from the Italian. Demy 8vo. Pp. 541. 1920. Spon. 21s.
- Meade, A.** Modern Gasworks Practice. 2nd edn. in preparation. Benn Bros.
- "Mentor."** Self-Instruction for Students in Gas Engineering. Part 1. Elementary (Ordinary Grade). 5th edn. Demy 8vo. Pp. 178. 1918. 6s. Part 2. Advanced (Honours Grade). 4th edn. Demy 8vo. Pp. 234. 1921. 10s. 6d. Benn Bros.
- O'Connor, H.** Gas Engineers' Pocket Book. Manufacture, Distribution and Use of Coal Gas. 3rd edn. Cr. 8vo. 1907. Crosby Lockwood. 12s. 6d.
- Scott, J. F.** Estimates and Valuations. A Handbook of Data and Prices for Gas Engineers, Building Works and Gasworks Plant, etc. Demy 8vo. Pp. 113. 1913. Benn Bros. 10s. 6d.
- Warnes, A. R.** Coal Tar and Some of its Products. Cr. 8vo. Pp. 127. 1919. Pitman. 3s.
- Coal Tar Distillation and Working-up of Tar Products. 2nd edn. Demy 8vo. Pp. 310. 1917. Benn Bros. 12s. 6d.

Applied and Industrial Chemistry.

Webber, W. H. Y. *Gas and Gas Making. Growth, Methods, and Prospects of the Industry.* Cr. 8vo. Pp. 141. 1919. Pitman. 3s.

Whitehead, S. E. *Benzol: its Recovery, Rectification and Uses.* Demy 8vo. Pp. 223. 1920. Benn Bros. 12s. 6d.

xviii. CHEMISTRY AND ANALYSIS OF GAS.

Abady, J. *The Gas Analyst's Manual.* 8vo. Pp. 576. 1902. Spon. 21s.

Chandley, C. *Gas Testing and Air Measurement.* 2nd edn. Cr. 8vo. Pp. 86. 1913. Methuen. 2s. 3d.

Coste, J. H. *The Calorific Power of Gas.* Cr. 8vo. Pp. 326. 1911. Griffin. 7s. 6d.

Franzen, H. *Exercises in Gas Analysis.* Translated from the German by T. Callan. Cr. 8vo. Pp. 119. 1913. Blackie. 2s. 6d.

Greenwood, H. C. *Industrial Gases.* Demy 8vo. Pp. 371. 1920. Baillière. 12s. 6d.

Hornby, J. *The Gas Engineers' Laboratory Handbook.* 3rd edn. Cr. 8vo. Pp. 328. 1911. Spon. 7s. 6d.

Lunge, G. *Technical Gas Analysis.* Med. 8vo. Pp. 424. 1916. Gurney & Jackson. 15s.

Martin, G., Dickson, J. M., Jobling, E., and others. *Industrial Gases. Including the Liquefaction of Gases, etc.* 2nd imp. Roy. 8vo. Pp. 158. 1918. Crosby Lockwood. 9s.

Royle, H. M. *The Chemistry of Gas Manufacture.* Demy 8vo. Pp. 340. 1907. Crosby Lockwood. 15s.

xix. DISTRIBUTION OF GAS.

Briggs, F. W., and Henwood, J. H. *A Manual on Gas-fitting and Appliances.* Cr. 8vo. Pp. 191. 1920. Crosby Lockwood. 6s.

Hole, W. *Distribution of Gas.* 4th edition in preparation. Benn Bros.

"Mentor." *Self-Instruction for Students in Gas Supply. Part 1. Elementary (Ordinary Grade).* 3rd edn. Demy 8vo. Pp. 226. 1920. 6s. Part 2. *Advanced (Honours Grade).* 2nd edn. Demy 8vo. Pp. 252. 1914. 6s. Benn Bros.

Webber, W. H. Y. *Gas Supply in Principle and Practice.* Cr. 8vo. Pp. 208. 1914. Pitman. 4s.

— *Town Gas and its Uses for the Production of Light, Heat, and Motive Power.* Ex. Cr. 8vo. Pp. 275. 1907. Constable. 7s. 6d.

— *On the Flow of Gas through Orifices and Small Pipes.* New edn. Demy 8vo. Pp. 35. Paper covers. Benn Bros. 1s. 6d.

Woodall, H., and Parkinson, B. R. *Distribution by Steel (Gas and Water).* 2nd edn. Demy 8vo. Pp. 250. 1920. Benn Bros. 15s.

xx. PEAT.

Bjorling, P. R., and Gissing, F. T. *Peat: Its Uses and Manufacture.* Cr. 8vo. Pp. 185. 1907. Griffin. 7s. 6d.

Gissing, F. T. *Peat Industry Reference Book.* Pocket size. Pp. 316. 1920. Griffin. 7s. 6d.

— *Commercial Peat: Its Uses and its Possibilities.* Cr. 8vo. Pp. 210. 1919. Griffin. 7s. 6d.

xxi. DYESTUFFS AND DYEING.

Barnett, E. de B. *Coal Tar Dyes and Intermediates.* Demy 8vo. Pp. 230. 1919. Baillière. 10s. 6d.

Bersch, J. *The Manufacture of Earth Colours.* Translated from the 3rd German edn. by C. Salter. Cr. 8vo. Pp. 216. 1921. Scott, Greenwood. 7s. 6d.

Cain, J. C. *The Chemistry and Technology of the Diazo Compounds.* 2nd edn. Demy 8vo. Pp. 199. 1920. Arnold. 12s. 6d.

— *The Manufacture of Intermediate Products for Dyes.* 2nd edn. 8vo. Pp. 284. 1919. Macmillan. 10s.

- Cain, J. C., and Thorpe, J. F.** The Synthetic Dyestuffs, and the Intermediate Products from which they are derived. Theoretical, Practical and Analytical. 5th edn. Large 8vo. Pp. 440. 1920. Griffin. 21s.
- Dreaper, W. P.** The Chemistry and Physics of Dyeing. 8vo. Pp. 328. 1906. Churchill. 10s. 6d.
- Farrell, F. J.** Dyeing and Cleaning. 4th edn. Cr. 8vo. Pp. 263. 1917. Griffin. 6s.
- Fierz-David, H. E.** The Fundamental Processes of Dye Chemistry. Translated by F. A. Mason. 8vo. Pp. 254. 1921. Churchill. 21s.
- Fort, M., and Lloyd, L. L.** The Chemistry of Dyestuffs. Cr. 8vo. Pp. 311. 1919. Cambridge University Press. 10s. 6d.
- Georgievics, G., and Grandmongin, E.** A Text-Book of Dye Chemistry (The Chemistry of Dye-Stuffs). Translated by F. A. Mason. 8vo. Pp. 576. 1920. Scott Greenwood. 30s.
- Green, A. G.** A Systematic Survey of the Organic Colouring Matters. Founded on the German of G. Schultz and P. Julius. 3rd imp. Imp. 8vo. Pp. 292. 1908. Macmillan. 25s.
- The Analysis of Dyestuffs and their Identification in Dyed and Coloured Materials, Lake Pigments, Foodstuffs, etc. 3rd edn. Large 8vo. Pp. 154. 1920. Griffin. 10s. 6d.
- Hasluck, P. N.** (edited by). Mordants, Methods and Machinery Used in Dyeing. Cr. 8vo. Pp. 168. 1906. Cassell. 3s.
- Heerman, P.** Dyers' Materials: An Introduction to the Examination, Valuation and Application of the most important Substances used in Dyeing, Printing, Bleaching and Finishing. Translated by A. C. Wright. 2nd edn. Cr. 8vo. Pp. 160. 1919. Scott, Greenwood. 7s. 6d.
- Higgins, S. H.** The Dyeing Industry: being a Third Edition of "Dyeing in Germany and America." 8vo. Pp. 198. 1919. Longmans. 8s. 6d.
- Hübner, J.** The Chemistry of Dyeing and Bleaching of Vegetable Fibrous Materials. 2nd edn. Demy 8vo. Pp. 457. 1919. Constable. 20s.
- Knecht, E., Rawson, C., and Loewenthal, R.** A Manual of Dyeing. 2 vols. 6th edn. Pp. 383., 531. 1920. Griffin. 42s.
- Martin, G., Beacall, T., Challengger, F., and Sand, H. J. S.** Dyestuffs and Coal-Tar Products. Their Chemistry, Manufacture, and Application. Roy. 8vo. Pp. 162. 1916. Crosby Lockwood. 9s.
- Nietzki, R.** Chemistry of Organic Dye-Stuffs. Translated with additions by A. Collin and W. Richardson. 8vo. Pp. 329. 1892. Gurney & Jackson. 15s.
- Perkin, A. G., and Everest, A. E.** The Natural Organic Colouring Matters. 8vo. Pp. 678. 1918. Longmans. 30s.
- Ramsay, A. R. J., and Weston, H. C.** Artificial Dyestuffs: their Nature, Manufacture, and Use. 8vo. Pp. 218. 1917. Routledge. 3s. 6d.
- Rawson, C., Gardner, W. M., and Laycock, W. F.** A Dictionary of Dyes, Mordants and other Compounds used in Dyeing and Calico Printing. Reprint of First edn. Large 8vo. Pp. 372. 1918. Griffin. 18s.
- Soxhlet, D. H.** The Art of Dyeing and Staining Marble, Artificial Stone, Bone, Horn, Ivory and Wood, and of Imitating all Sorts of Wood. A Practical Hand-book for the Use of Joiners, Turners, Manufacturers of Fancy Goods, Sticks, Umbrellas, Combs, etc. Translated from the German. Cr. 8vo. Pp. 168. 1902. Scott, Greenwood. 6s.
- Wahl, A.** The Manufacture of Organic Dyestuffs. Translated with additions from the French by F. W. Atack. 3rd imp. Cr. 8vo. Pp. 352. 1919. Bell. 6s.

Whittaker, C. M. *The Application of the Coal Tar Dye Stuffs, Principles Involved and Methods Employed.* Demy 8vo. Pp. 226. 1918. Baillière. 10s. 6d.

Wood, J. K. *The Chemistry of Dyeing.* Cr. 8vo. Pp. 88. Gurney & Jackson. 2s. 6d.

Zerr, G. *Tests for Coal-Tar Colours in Aniline Lakes.* Translated by C. Mayer. Med. 8vo. Pp. 242. 1910. Griffin. 12s. 6d.

xxii. INK MANUFACTURE.

Lehner, S. *Ink Manufacture: Including Writing, Copying, Lithographic, Marking, Stamping, and Laundry Inks.* Translated from the German. 2nd edn. Cr. 8vo. Pp. 180. 1914. Scott, Greenwood. 6s.

Mitchell, C. A., and Hepworth, T. C. *The Manufacture of Ink. A Handbook of the Production and Properties of Printing, Writing, and Copying Inks.* 2nd edn. Large 8vo. Pp. 272. 1916. Griffin. 9s.

Seymour, A. *Modern Printing Inks. A Practical Handbook for Printing Manufacturers and Printers.* Demy 8vo. Pp. 90. 1910. Scott, Greenwood. 6s.

xxiii. PAPER MAKING.

Andès, L. E. *The Treatment of Paper for Special Purposes.* Translated. Cr. 8vo. Pp. 250. 1907. Scott, Greenwood. 7s.

Beadle, C. *Chapters on Paper Making.* 5 Vols. Vol. 1. Pp. 151. 1908. Vol. 2. Pp. 182. 1919. Vol. 3. Pp. 142. 1907. Vol. 4. Pp. 164. 1907. Vol. 5. Pp. 190. 1908. Crosby Lockwood. 6s. each vol.

Bromley, H. A. *Paper and Its Constituents. A Manual of Technical Methods, Chemistry and Analysis of Raw materials; Paper-Making Fibres; Bleaching, Sizing, and Loading Agents and Dyestuffs; Microscopy; and Physical and Chemical Properties of Paper.* Demy 8vo. Pp. 239. 1920. Spon. 15s.

Chalmers, T. W. *Paper Making and Its Machinery. Including Chapters on the Tub Sizing of Paper, the Coating and Finishing of Art Paper and the Coating of Photographic Paper.* Imp. 8vo. Pp. 190. 1920. Constable. 26s.

Clapperton, G. *Paper Making. A Practical Manual for Paper Makers and Owners of Paper Mills; with Tables and Calculations.* 2nd edn. Cr. 8vo. 1917. Crosby Lockwood. 7s. 6d.

Cross, C. F., and Bevan, E. J. *A Text-book of Paper Making.* 5th edn. Demy 8vo. Pp. 450. 1920. Spon. 30s.

— **Beadle, C., and Sindall, R. W.** *C. B. S. Standard Units and Standard Paper Tests.* 4to. Pp. 25. 1903. Spon. 2s. 6d.

— **and Sindall, R. W.** *Wood Pulp.* 2nd edn. Ex. Cr. 8vo. Pp. 275. 1918. Constable. 8s. 6d.

Maddox, H. A. *Paper. Its History, Sources, and Production.* Cr. 8vo. Pp. 167. 1917. Pitman. 3s.

Sindall, R. W. *The Manufacture of Paper.* 2nd imp. Ex. Cr. 8vo. Pp. 285. 1919. Constable. 8s. 6d.

— *Paper Technology: An Elementary Manual on the Manufacture, Physical Qualities, and Chemical Constituents of Paper and of Paper-making Fibres.* 3rd edn. Demy 8vo. Pp. 353 and 14 Plates. 1920. Griffin. 21s.

Stevens, H. P. *The Paper Mill Chemist.* 2nd edn. Roy. 12mo. Pp. 325. 1919. Scott, Greenwood. 10s. 6d.

Watt, A. *Paper Making. The Manufacture of Paper from Rags, Esparto, Straw, Wood Fibre, etc.* New imp. Cr. 8vo. 1918. Crosby Lockwood. 8s. 6d.

xxiv. LEATHER MANUFACTURE AND TANNING.

Adcock, K. J. *Leather: From the Raw Material to the Finished Product.* Cr. 8vo. Pp. 167. 1915. Pitman. 3s.

- Bennett, H. G.** *The Manufacture of Leather.* 3rd imp. Demy 8vo. Pp. 442. 1919. Constable. 18s.
- Harvey, A.** *Practical Leather Chemistry. A Handbook of Laboratory Notes and Methods for the Use of Students and Works' Chemists.* Med. 8vo. Pp. 207. 1919. Crosby Lockwood. 15s.
- Procter, H. R.** *The Principles of Leather Manufacture.* New edition in preparation. Spon.
- *The Making of Leather.* Roy. 16mo. Pp. 161. 1914. Cambridge University Press. 2s. 6d.
- *Leather Industries Laboratory Book of Analytical and Experimental Methods.* 2nd edn. 8vo. Pp. 450. 1919. Spon. 25s.
- (edited by). *Leather Chemists' Pocket Book. A short compendium of Analytical Methods.* 16mo. Pp. 237. 1919. Spon. 7s. 6d.
- Standage, H. C.** *The Leather Workers' Manual.* 3rd edn. 8vo. Pp. 173. 1920. Scott, Greenwood. 10s. 6d.
- Trotman, S. R.** *Leather Trades' Chemistry. A Practical Manual on the Analysis of Materials and Finished Products.* Large 8vo. Pp. 300. 1908. Griffin. 18s.
- Watt, A.** *Leather Manufacture. A Practical Handbook of Tanning, Currying, and Chrome Leather Dressing.* 5th edn. 8vo. 1919. Crosby Lockwood. 15s.
- Wood, J. T.** *The Puering, Bating, and Drenching of Skins.* 8vo. Pp. 315. 1912. Spon. 14s.
- xxv. GLASS, POTTERY AND CERAMICS.**
- Asch, W., and D.** *The Silicates in Chemistry and Commerce.* Translated with critical notes and some additions by A. B. Searle. Roy. 8vo. Pp. 420. 1915. Constable. 21s.
- Audley, J. A.** *Silica and the Silicates.* Demy 8vo. Pp. 388. 1921. Baillière. 15s.
- Bellow, H. R.** (edited by). *Factory Glazes for Ceramic Engineers, arranged on an exhaustive method for the heat of the Soft Porcelain Kiln, and including the Glazes employed in actual manufacture.* Series A. Folio. 1908. Spon. 42s.
- Binns, C. F.** (edited by). *The Manual of Practical Potting.* 4th edn. Demy 8vo. Pp. 204. 1907. Scott, Greenwood. 19s. 6d.
- Duthie, A. L.** *Decorative Glass Processes.* 2nd imp. Ex. Cr. 8vo. Pp. 279. 1908. Constable. 8s. 6d.
- Hainbach, R.** *Pottery Decorating. A Description of all the Processes for Decorating Pottery and Porcelain.* Translated from the German. Cr. 8vo. Pp. 250. 1907. Scott, Greenwood. 8s. 6d.
- Hovestadt, H.** *Jena Glass and its Scientific and Industrial Applications.* Translated by J. D. and Alice Everett. 8vo. Pp. 436. 1902. Macmillan. 18s.
- Howorth, J.** *The Art of Riveting Glass, China, and Earthenware.* 2nd edn. 1908. Scott, Greenwood. 1s.
- Marson, P.** *Glass and Glass Manufacture.* Cr. 8vo. Pp. 138. 1918. Pitman. 3s.
- Mellor, J. W.** (edited by). *Clay and Pottery Industries; Being Vol. I. of the Collected Papers from the County Pottery Laboratory, Staffordshire.* By Several Authors. Demy 8vo. Pp. 428. 1914. Griffin. 18s.
- Recipes for Flint Glass Making.** By a British Glass Master and Mixer. 60 Recipes. Being Leaves from the Mixing Book of Several experts in the Flint Glass Trade, containing up-to-date recipes and valuable information as to Crystal, Demi-Crystal, and Coloured Glass in its many varieties. 2nd edn. Cr. 8vo. 1907. Scott, Greenwood. 12s. 6d.
- Rosenhain, W.** *Glass Manufacture.* 2nd edn. Ex. Cr. 8vo. Pp. 258. 1919. Constable. 12s. 6d.

- Sandeman, E. A.** *The Manufacture of Earthenware. A Practical Treatise.* 3rd imp. Cr. 8vo. Pp. 384. 1921. Crosby Lockwood. 12s.
- Searle, A. B.** *The Clay Workers' Handbook. A Manual for all engaged in the Manufacture of Articles from Clay.* 3rd edn. Demy 8vo. Pp. 400. 1921. Griffin. 21s.
- *The Ceramic Industries Pocket Book. Pocket Size.* Pp. 274. 1920. Pitman. 8s. 6d.
- *Refractory Materials: Their Manufacture and Uses.* 2nd edition in preparation. Griffin.
- Shaw, S.** *The History of the Staffordshire Potteries; and the Rise and Progress of the Manufacture of Pottery and Porcelain. With References to Genuine Specimens and Notices of Eminent Potters. A Re-Issue, originally published in 1829.* Demy 8vo. Pp. 256. 1900. Scott, Greenwood. 6s.
- Suffling, E. R.** *A Treatise on the Art of Glass Painting. Prefaced with a Review of Ancient Glass.* Demy 8vo. Pp. 140. 1902. Scott, Greenwood. 8s. 6d.
- Whall, C. W.** *Stained Glass Work.* New Imp. Cr. 8vo. Pp. 381. 1920. Pitman. 10s. 6d.
- xxvi. EXPLOSIVES AND THEIR MANUFACTURE.**
- Barnett, E. de B.** *Explosives.* Demy 8vo. Pp. 256. 1919. Baillière. 12s. 6d.
- Berthelot, M.** *Explosives and their Powers.* Translated and condensed from the French by C. Napier Hake and W. MacNab. 8vo. Pp. 563. 1892. Murray. 28s.
- Bichel, C. E.** *New Methods of Testing Explosives.* Translated and edited by A. Larsen. Med. 8vo. Pp. 67. 1905. Griffin. 7s. 6d.
- Colver, E. de W. S.** *High Explosives: A Practical Treatise on their History, Manufacture, Properties, and Use.* Roy. 8vo. Pp. 830. 1918. Crosby Lockwood. 63s.
- Guttman, O.** *Twenty Years' Progress in the Manufacture of Explosives.* Med. 8vo. Pp. 84. 1909. Pitman. 3s. 6d.
- *The Manufacture of Explosives. A Theoretical and Practical Treatise on the History and Manufacture of Explosives.* 2 vols. Med. 8vo. Pp. 348., 448. 1895. Pitman. 50s.
- Levy, S. I.** *Modern Explosives.* Cr. 8vo. Pp. 119. 1920. Pitman. 3s.
- MacDonald, G. W.** *Historical Papers on Modern Explosives.* Med. 8vo. Pp. 192. 1912. Pitman. 9s.
- Marshall, A.** *Explosives. History and Manufacture: Properties and Tests.* 2 vols. Cr. 4to. Pp. 822. 1917. Churchill. 63s.
- *A Short Account of Explosives.* Cr. 4to. Pp. 104. 1917. Churchill. 7s. 6d.
- *Dictionary of Explosives.* 8vo. Pp. 159. 1920. Churchill. 15s.
- Martin, G., and Barbour, W.** *Industrial Nitrogen Compounds and Explosives: their Manufacture, Properties and Industrial Uses.* 2nd edn. Roy. 8vo. Pp. 133. 1917. Crosby Lockwood. 9s.
- Rise and Progress of the British Explosives Industry, The.** By the Explosives Section of the Seventh International Congress of Applied Chemistry. Cr 4to. Pp. 420. 1909. Pitman. 18s.
- Sanford, P. G.** *Nitro-Explosives. Their Properties, Manufacture and Analysis.* 2nd edn. Demy 8vo. Pp. 312. 1906. Crosby Lockwood. 12s.
- xxvii. ACIDS, ALKALIES, SALTS, etc.**
- Adlam, G. H. J.** *Acids, Alkalies and Salts.* Cr. 8vo. Pp. 121. 1920. Pitman. 3s.
- Bottler, M.** *Modern Bleaching Agents and Detergents.* Translated from the German. Cr. 8vo. Pp. 160. 1910. Scott, Greenwood. 6s.

Applied and Industrial Chemistry.

Calvert, A. F. Salt and the Salt Industry. Cr. 8vo. Pp. 158. 1919. Pitman. 3s.

— Salt in Cheshire. Demy 8vo. Pp. 1206. 1915. Spon. 30s.

Calvert, G. T. Manufacture of Sulphate of Ammonia and Crude Ammonia. 2nd edn. Demy 8vo. Pp. 161. 1917. Benn Bros. 9s.

Dobbin, L., and Marshall, H. Salts and their Reactions. A Class Book of Practical Chemistry. 4th edn. 8vo. Pp. 203. 1920. J. Thin. 6s. 6d.

Grossman, J. Ammonia and its Compounds. Pott. 8vo. Pp. 161. 1906. Harper. 3s.

Lunge, G. The Manufacture of Sulphuric Acid and Alkali. New edn. in preparation. Gurney & Jackson.

Martin, G., and Foucar, J. L. Sulphuric Acid and Sulphur Products. 2nd edn. Roy. 8vo. Pp. 85. 1920. Crosby Lockwood. 9s.

Maxted, E. B. Ammonia and the Nitrides with special reference to their Synthesis. Cr. 8vo. Pp. 124. 1921. Churchill. 7s. 6d.

Martin, G., and Clough, G. W. Chlorine and Chlorine Products. Including the Manufacture of Bleaching Powder, Hypochlorites, Chlorates, Bromine, Iodine, etc. 2nd imp. Roy. 8vo. Pp. 108. 1918. Crosby Lockwood. 9s.

— **Smith, S., and Milsom, F.** The Salt and Alkali Industry. The Manufacture of Hydrochloric Acid, Sodium Sulphate, &c. 2nd edn. Roy. 8vo. Pp. 108. 1920. Crosby Lockwood. 9s.

Partington, J. R. The Alkali Industry. Demy 8vo. Pp. 304. 1918. Baillière. 10s. 6d.

Vincent, C. Ammonia and Its Compounds: Their Manufacture and Uses. Translated. Roy. 8vo. Pp. 114. 1901. Scott, Greenwood. 6s.

xxviii. UTILISATION OF WASTE PRODUCTS; WOOD PRODUCTS.

Dumesny, P., and Noyer, J. Wood Products: Distillates and Extracts. Translated from the French by D. Grant. Roy. 8vo. Pp. 320. 1908. Scott, Greenwood. 12s. 6d.

Hubbard, E. The Utilisation of Wood Waste. Translated from the German. 3rd edn. Revised by H. B. Stocks. Cr. 8vo. Pp. 248. 1920. Scott, Greenwood. 10s. 6d.

Koller, T. The Utilisation of Waste Products. Translated from the German. 3rd edn. Demy 8vo. Pp. 338. 1918. Scott, Greenwood. 12s. 6d.

Naylor, W. Trades' Waste: its Treatment and Utilisation. Med. 8vo. Pp. 283. 1902. Griffin. 25s.

Spooner, H. J. Wealth from Waste. Elimination of Waste a World Problem. 8vo. Pp. 332. 1918. Routledge. 7s. 6d.

xxix. MISCELLANEOUS CHEMICAL MANUFACTURES.

Allen, A. W. The Recovery of Nitrate from Chilean Caliche: containing a vocabulary of Terms, an account of the Shanks system, with a criticism of its fundamental features, and a description of a new process. Cr. 8vo. Pp. 66. 1921. Griffin. 6s.

Barrowcliff, M., and Carr, F. H. Organic Medicinal Chemicals (Synthetic and Natural). Demy 8vo. Pp. 345. 1921. Baillière. 15s.

Berkeley, H. R., and Walker, W. M. Practical Receipts for the Manufacturer, the Mechanic, and for Home Use. New imp. 8vo. Pp. 250. 1912. Spon. 7s. 6d.

Böckmann, F. Celluloid: Its Raw Material, Manufacture, Properties, and Uses. Translated from the German. Cr. 8vo. Pp. 120. 1907. Scott, Greenwood. 6s.

Applied and Industrial Chemistry.

Bourcart, E. Insecticides, Fungicides, and Weed Killers. Translated from the French. Demy 8vo. Pp. 450. 1913. Scott, Greenwood. 14s. 6d.

Hodgson, H. H. Celluloid: its Manufacture, Applications, and Substitutes. Translated from the French of Masselon, Roberts, and Cillard. 2nd edn. in preparation. Griffin.

Johnstone, S. J., and Russell, A. The Rare Earth Industry. Their Industrial Application and Exploitation. Roy. 8vo. Pp. 140. 1918. Crosby Lockwood. 9s.

Knox, J. The Fixation of Atmospheric Nitrogen. New edition in preparation. Gurney and Jackson.

METALLURGY.

i. GENERAL AND MISCELLANEOUS.

- Gower, A. R.** An Elementary Text-book of Practical Metallurgy. 2nd edn. Cr. 8vo. Pp. 164. 1913. Chapman and Hall. 4s.
- Hiorns, A. H.** Principles of Metallurgy. 2nd edn. Gl. 8vo. Pp. 404. 1914. Macmillan. 7s.
- A Text-Book of Elementary Metallurgy. 2nd edn. Globe 8vo. Pp. 242. 1913. Macmillan. 3s. 6d.
- Practical Metallurgy and Assaying. 2nd edn. Gl. 8vo. Pp. 514. 1914. Macmillan. 7s.
- Huntington, A. K., and McMillan, W. G.** Metals: Their Properties and Treatment. 3rd edn. Cr. 8vo. Pp. 570. 1914. Longmans. 8s. 6d.
- MacFarlane, W.** Laboratory Notes on Practical Metallurgy. Cr. 8vo. Pp. 152. 1905. Longmans. 3s.
- Passivity of Metals, The.** Faraday Society Report, 1914. Demy 8vo. Pp. 88. 1914. Faraday Society. 7s. 6d.
- Rhead, E. L.** Metallurgy. Pcap. 8vo. Pp. 296. 1919. Longmans. 5s.
- Roberts-Austen, Sir W. C.** Introduction to Metallurgy. 7th edition in preparation. Griffin.
- Addresses and Scientific Papers, together with a Record of the Work of Sir W. C. Roberts-Austen. Compiled and Edited by S. W. Smith. Med. 8vo. Pp. 393. 1914. Griffin. 25s.
- Schnabel, C.** Handbook of Metallurgy. Translated and revised by H. Louis. 2 vols. 8vo. Vol. 1. Copper, Lead, Silver, Gold. 3rd edn. Pp. 1,195. 1921. 40s. Vol. 2. Zinc, Mercury, Bismuth, Tin, Antimony, Arsenic, Nickel, Cobalt, Platinum, Aluminium. 2nd edn. Pp. 884. 1907. 25s. Macmillan.

Sexton, A. H. A Text-Book of Elementary Metallurgy: including the Author's Practical Laboratory Course. 6th edn. in preparation. Griffin.

Stansbie, J. H. Elementary Practical Metallurgy. Cr. 8vo. Pp. 160. 1915. Churchill. 3s. 6d.

Stobbs, T. Weights of Steel Bars, Sections and Plate Tables. Cr. 8vo. Pp. 92. 1920. Spon. 6s. 6d.

Turner, T. Practical Metallurgy. An Introductory Course for General Students. 2nd edn. Cr. 8vo. Pp. 116. 1919. Griffin. 3s. 6d.

ii. IRON AND STEEL.

Allen, H. Metallurgical Manual of Iron and Steel. Cr. 8vo. Pp. 400. 1911. Technical Pub. Co. 8s.

Carnegie, D., and Gladwyn, S. C. Liquid Steel: Its Manufacture and Cost. 2nd edn. 8vo. Pp. 552. 1918. Longmans. 32s.

Davies, J. Galvanized Iron. Its Manufacture and Uses. 8vo. Pp. 139. 1914. Spon. 6s.

Ede, G. The Management of Steel. 7th edn. Cr. 8vo. Pp. 216. 1909. Spon. 6s.

Edwards, G. A. The Physico-Chemical Properties of Steel. 2nd edn. 8vo. Pp. 293. 1920. Griffin. 21s.

Transformations of Pure Iron, The. Faraday Society Report, 1916. Demy 8vo. Pp. 34. 1916. Faraday Society. 2s. 6d.

Friend, J. N. The Corrosion of Iron and Steel. Cr. 8vo. Pp. 314. 1911. Longmans. 7s. 6d.

Greenwood, W. H., and Sexton, A. H. Iron: Its Sources, Properties, and Manufacture. Cr. 8vo. Pp. 256. 1918. Cassell. 4s. 6d.

- Greenwood, W. H., and Sexton, A. H.** *Steel: Its Varieties, Properties, and Manufacture.* Cr. 8vo. Pp. 264. 1920. Cassell. 4s. 6d.
- Harbord, F. W., and Hall, J. W.** *The Metallurgy of Steel.* 2 vols. Large 8vo. Vol. 1. *Metallurgy.* Vol. 2. *Mechanical Treatment.* 7th edn. in preparation. Griffin.
- Hatfield, W. H.** *Cast Iron in the Light of Recent Research.* 2nd edn. Med. 8vo. Pp. 310. 1918. Griffin. 12s. 6d.
- Hearson, H. R.** *The Manufacture of Iron and Steel. A Handbook for Engineering Students, Merchants, and Users of Iron and Steel.* 8vo. Pp. 103. 1912. Spon. 5s.
- Hiorns, A. H.** *Steel and Iron for Advanced Students.* Gl. 8vo. Pp. 550. 1911. Macmillan. 12s. 6d.
- Hood, C.** *Iron and Steel. Their Production and Manufacture.* Cr. 8vo. Pp. 160. 1911. Pitman. 3s.
- Hudson, O. F., and Bengough, G. D.** *Iron and Steel: An Introductory Text-Book for Engineers and Metallurgists. With a section on Corrosion.* 2nd imp. Demy 8vo. Pp. 183. 1921. Constable. 12s. 6d.
- Jeans, J. S.** *The Iron Trade of Great Britain.* Cr. 8vo. Pp. 243. 1906. Methuen. 5s.
- Jones, J. H.** *The Tin Plate Industry. A Study in Economic Organization, with special reference to its relations with the Iron and Steel Industries.* Demy 8vo. Pp. 302. 1914. King. 7s. 6d.
- Jüptner, H. F. v.** *Siderology: The Science of Iron. (The Constitution of Iron Alloys and Slags). Translated from the German.* Demy 8vo. Pp. 350. 1902. Scott, Greenwood. 12s. 6d.
- Macfarlane, W.** *The Principles and Practice of Iron and Steel Manufacture.* 5th edn. Cr. 8vo. Pp. 290. 1917. Longmans. 6s.
- Parsons, S. J.** *Malleable Cast Iron.* 2nd edn. Demy 8vo. Pp. 187. 1919. Constable. 14s.
- Richards, W. A.** *The Forging of Iron and Steel.* 2nd edn. Demy 8vo. Pp. 227. 1918. Constable. 7s. 6d.
- Sexton, A. H., and Primrose, J. S. G.** *The Metallurgy of Iron and Steel.* 2nd edn. Demy 8vo. Pp. 600. 1919. Scientific Pub. Co. 15s.
- Turner, T.** *The Metallurgy of Iron.* 6th edn. Demy 8vo. Pp. 502. 1920. Griffin. 18s.

iii. NON-FERROUS METALS AND ALLOYS.

- Allen, A. W.** *Mill and Cyanide Handbook, comprising Tables, Formulae, Flow Sheets and Report Forms, compiled and arranged for the Use of Metallurgists, Mill Men and Cyanide Operators.* Fcap. 8vo. Pp. 137. 1918. Griffin. 6s.
- Buchanan, J. F.** *Brass Founder's Alloys.* Cr. 8vo. Pp. 129. 1909. Spon. 6s.
- Collins, H. F.** *The Metallurgy of Silver.* 2nd edn. in preparation. Griffin.
- *The Metallurgy of Lead.* 2nd edn. 8vo. Pp. 558. 1910. Griffin. 25s.
- Downie, J. R.** *Chemists' Manual of Non-Ferrous Alloys.* Demy 8vo. Pp. 168. 1920. Spon. 10s.
- Eissler, M.** *The Metallurgy of Argentiferous Lead.* Cr. 8vo. Pp. 396. 1891. Crosby Lockwood. 15s.
- *The Hydro-Metallurgy of Copper.* 8vo. Pp. 228. 1902. Crosby Lockwood. 12s. 6d.
- *The Metallurgy of Gold.* 5th edn. 8vo. Pp. 638. 1900. Crosby Lockwood. 25s.
- *The Metallurgy of Silver.* 5th edn. Cr. 8vo. Pp. 381. 1901. Crosby Lockwood. 12s. 6d.
- Gee, G. E.** *Recovering Precious Metals from Waste Liquid Residues. A Complete Workshop Treatise, containing Practical Directions for the Recovery of Gold, Silver, and Platinum from every Description of Waste Liquids in the*

- Jewellery, Photographic, Electro-plating Trades. Demy 8vo. Pp. 388. 1920. Spon. 16s.
- Gowland, W.** Metallurgy of the Non-Ferrous Metals. 2nd edn. 8vo. Pp. 619. 1918. Griffin. 25s.
- Gulliver, G. H.** A Handbook of Metallic Alloys: Their Structure and Constitution. 4th edn. Cr. 8vo. Pp. 467. 1921. Griffin. 15s.
- Hiorns, A. H.** Mixed Metals or Metallic Alloys. 3rd edn. Gl. 8vo. Pp. 490. 1912. Macmillan. 7s.
- Lambert, T.** Lead and Its Compounds. Demy 8vo. Pp. 226. 1902. Scott, Greenwood. 8s. 6d.
- Law, E. F.** Alloys and their Industrial Applications. 4th edn. Demy 8vo. Pp. 352. 1919. Griffin. 15s.
- Lones, T. E.** Zinc and Its Alloys. Cr. 8vo. Pp. 136. 1919. Pitman. 3s.
- Mortimer, G.** Aluminium. Its Manufacture, Manipulation and Marketing. Cr. 8vo. Pp. 160. 1920. Pitman. 3s.
- Park, J.** The Cyanide Process of Gold Extraction. A Text-Book for the use of Metallurgists and Students. 5th edn. Large Cr. 8vo. Pp. 347. 1913. Griffin. 10s. 6d.
- Pattison, J. T.** The Manufacture of Aluminium. Cr. 8vo. Pp. 112. 1919. Spon. 7s. 6d.
- Picard, H. K.** Copper. From the Ore to the Metal. Cr. 8vo. Pp. 139. 1916. Pitman. 3s.
- Rose, Sir T. K.** The Metallurgy of Gold. 6th edn. Large 8vo. Pp. 620. 1915. Griffin. 25s.
- The Precious Metals: comprising Gold, Silver, and Platinum. Cr. 8vo. Pp. 311. 1909. Constable. 7s. 6d.
- Sexton, A. H.** Alloys: Non-Ferrous. Demy 8vo. Pp. 298. 1908. Scientific Pub. Co. 7s. 6d.
- and Primrose, J. S. G.** The Common Metals: Non-ferrous. The Metallurgy of Copper, Tin, Zinc, Lead, Antimony, Aluminium and Nickel. Demy 8vo. Pp. 500. 1909. Scientific Pub. Co. 10s.
- Smith, E. A.** The Zinc Industry. 8vo. Pp. 232. 1918. Longmans. 10s. 6d.
- Smythe, J. A.** Lead, Including Lead Pigments and the Desilverisation of Lead. Cr. 8vo. Pp. 128. 1920. Pitman. 3s.
- Stokes, R., White, H. A., Caldecott, W. A., and other contributors.** Rand Metallurgical Practice. 8vo. Vol. 1. Pp. 468. 1913. 25s. Vol. 2. 2nd edn. Pp. 462. 1919. 25s. Griffin.
- Wang, C. Y.** Antimony: Its History, Chemistry, Mineralogy, Geology, Metallurgy, Uses, Preparation, Analysis, Production and Valuation, with complete Bibliography. 2nd edn. Large 8vo. Pp. 227. 1919. Griffin. 15s.
- White, B.** Silver: its Intimate Association with the Daily Life of Man. Cr. 8vo. Pp. 155. 1920. Pitman. 3s.
- Gold, its Place in the Economy of Mankind. Cr. 8vo. Pp. 142. 1920. Pitman. 3s.

iv. ELECTRO-METALLURGY.

- Electric Furnaces.** Faraday Society Report, 1918. Demy 8vo. Pp. 37 and Plates. 1918. Faraday Society. 3s. 6d.
- Kershaw, J. B. C.** Electro-Metallurgy. Ex. Cr. 8vo. Pp. 318. 1908. Constable. 7s. 6d.
- Electro-Thermal Methods of Iron and Steel Production. Demy 8vo. Pp. 252. 1913. Constable. 9s.
- McMillan, W. G., and Cooper, W. R.** A Treatise on Electro-Metallurgy. 4th edn. in preparation. Griffin.
- Rideal, E. K.** Industrial Electrometallurgy, including Electrolytic and Electrophysical Processes. Demy 8vo. Pp. 260. 1918. Baillière. 10s. 6d.

v. ANALYSIS AND ASSAYING.

Arnold, J. O., and Ibbotson, F. Steel Works Analysis. A Practical Handbook for Engineers and Metallurgists. 4th edn. Cr. 8vo. Pp. 468. 1919. Pitman. 12s. 6d.

Beringer, J. J., and C. A Text-Book of Assaying: for the use of Students, Mine Managers, Assayers, etc. 15th edn. Cr. 8vo. Pp. 487. 1921. Griffin. 12s. 6d.

Brown, W. L. Manual of Assaying Gold, Silver, Copper, and Lead Ores. New edition. Revised and enlarged with a Chapter on the Assaying of Fuels by A. B. Griffiths. Cr. 8vo. Pp. 352. 1904. Heinemann. 7s. 6d.

Ibbotson, F. The Chemical Analysis of Steel-Works' Materials. Demy 8vo. Pp. 304. 1920. Longmans. 21s.

— and **Aitchison, L.** The Analysis of Non-Ferrous Alloys. New edition in preparation. Longmans.

Macfarlane, W. A Practical Guide to Iron and Steel Works Analyses, with Supplement, being selections from "Laboratory Notes on Iron and Steel Analyses." 2nd edn. Cr. 8vo. Pp. 350. 1920. Longmans. 9s.

MacLeod, W. A., and Walker, C. Metallurgical Analysis and Assaying: A Three Years' Course for Students of Schools of Mines. Large 8vo. Pp. 330. 1903. Griffin. 15s.

Morgan, J. J. Aids to the Analysis and Assay of Ores, Metals, Fuels, etc. 2nd edn. Fcap. 8vo. Pp. 146. 1915. Baillière. 3s.

— Quantitative Metallurgical Analysis. Tables for Laboratory Use; on the Principle of "Group" Separations. 2nd edn. in preparation. Griffin.

Park, J. Practical Assaying. For the Use of Mining Schools, Miners, and Metallurgists. 5th edn. Large Cr. 8vo. Pp. 354. 1918. Griffin. 9s.

Phillips, H. J. Gold Assaying. A Practical Handbook for the accurate Assay of Auriferous Ores and Bullion, and the Chemical Tests required in the Processes of Extraction. Cr. 8vo. Pp. 150. 1904. Crosby Lockwood. 8s. 6d.

Pickard, J. A. Modern Steel Analysis. A Selection of Practical Methods for the Chemical Analysis of Steel. Cr. 8vo. Pp. 136. 1914. Churchill. 5s.

Smith, E. A. The Sampling and Assay of the Precious Metals: Comprising Gold, Silver and Platinum, in Ores, Bullion and Products. Med. 8vo. Pp. 475. 1913. Griffin. 18s.

Wraight, E. A. Assaying in Theory and Practice. Demy 8vo. Pp. 324. 1914. Arnold. 10s. 6d.

vi. METALLOGRAPHY.

Desch, C. H. Metallography. New impression in the Press. Longmans.

— Intermetallic Compounds. 8vo. Pp. 122. 1914. Longmans. 5s.

Giua, M., and Giua-Lollini, C. Chemical Combination among Metals. Translated by G. W. Robinson. 8vo. Pp. 356. 1918. Churchill. 21s.

Goerens, P. Introduction to Metallography. Translated by F. Ibbotson. 8vo. Pp. 224. 1908. Longmans. 9s.

Hiorns, A. H. Metallography. Gl. 8vo. Pp. 172. 1902. Macmillan. 7s.

Mellor, J. W. The Crystallisation of Iron and Steel: an Introduction to the Study of Metallography. New imp. Cr. 8vo. Pp. 124. 1918. Longmans. 8s. 6d.

Osmond, F., and Stead, J. E. The Microscopic Analysis of Metals. 2nd edn. Revised and Corrected by L. P. Sidney. Large Cr. 8vo. Pp. 330. 1913. Griffin. 10s. 6d.

Rosenhain, W. An Introduction to the Study of Physical Metallurgy. 2nd edn. Demy 8vo. Pp. 390. 1919. Constable. 12s. 6d.

Savoia, H. *Metallography Applied to Siderurgic Products.* Translated by R. C. Corbet. Cr. 8vo. Pp. 180. 1910. Spon. 6s.

vii. HEAT TREATMENT OF METALS.

Brearley, H. *The Heat Treatment of Tool Steel. A Description of the Physical Changes and Properties induced in Tool Steel by Heating and Cooling Operations.* New imp. 8vo. Pp. 240. 1918. Longmans. 12s. 6d.

— *The Case-Hardening of Steel. An Illustrated Exposition of the Changes in Structure and Properties induced in Steels by Cementation and Allied Processes.* 2nd edn. Demy 8vo. Pp. 218. 1921. Longmans. 16s.

Reiser, F. *The Hardening and Tempering of Steel in Theory and Practice.* Translated from the German. 2nd edn. Cr. 8vo. Pp. 120. 1918. Scott, Greenwood. 6s.

viii. FOUNDRY WORK.

Bower, C. O. *Practical Shell Forging and the Plastic Deformation of Steel and its Heat Treatment.* Roy. 8vo. Pp. 301. 1919. Library Press. 30s.

Brearley, A. W., and H. *Ingots and Ingot Moulds.* 8vo. Pp. 234. 1918. Longmans. 16s.

Buchanan, J. F. *The Moulder's Dictionary (Foundry Nomenclature).* Cr. 8vo. Pp. 233. 1912. Spon. 6s.

Dichmann, C. *The Basic Open-Hearth Steel Process.* Translated by A. Reynolds. 2nd imp. Demy 8vo. Pp. 346. 1920. Constable. 12s. 6d.

Horner, J. *Brassfounding.* Demy 8vo. Pp. 182. 1918. Emmott. 5s.
— *Practical Ironfounding.* 4th edn. Cr. 8vo. Pp. 409. 1914. Pitman. 10s.

McWilliam, A., and Longmuir, P. *General Foundry Practice: A Practical Handbook for Iron, Steel and Brass Founders, Metallurgists, and Students of Metallurgy.* 3rd edn. 8vo. Pp. 391. 1920. Griffin. 18s.

Morgan, J. J. *Notes on Foundry Practice.* 2nd edn. Cr. 8vo. Pp. 138. 1920. Griffin. 4s. 6d.

— *Blast Furnace Practice.* 2nd edn. Cr. 8vo. Pp. 54. 1916. Griffin. 2s. 6d.

Purves, A. *The Brass Moulder Illustrated. A Practical Guide.* Cr. 8vo. Pp. 165. 1915. Spon. 5s.

Rhead, E. L. *The Principles and Practice of Ironfounding.* Demy 8vo. Pp. 512. 1910. Scientific Pub. Co. 7s. 6d.

Roxburgh, W. *General Foundry Practice. A Treatise on General Iron Founding, Job Loam Practice, Moulding and Casting of Finer Metals, etc.* 2nd edn. Ex. Cr. 8vo. Pp. 307. 1919. Constable. 8s. 6d.

Sexton, A. H. *Principles of Iron Founding and Foundry Metallography.* Cr. 8vo. Pp. 330. 1911. Technical Pub. Co. 8s.

Sharp, J. *Modern Foundry Practice. Dealing with the Green-Sand, Dry-Sand and Loam Moulding Processes, the materials used, also detailed descriptions of the machinery and other appliances employed.* 2nd edn. New imp. 8vo. Pp. 760. 1918. Spon. 24s.

Turner, T. *Lectures on Iron Founding.* 2nd edn. Extra Cr. 8vo. Pp. 146. 1911. Griffin. 4s.

MILITARY SCIENCE AND ENGINEERING.

Hicks, J. W. The Theory of the Rifle and Rifle Shooting. An Elementary Treatise on the Scientific Principles of the Small-Arm and its Functions. Cr. 8vo. Pp. 148. 1919. Griffin. 5s.

Noble, Sir A. Artillery and Explosives. Essays and Lectures written and Delivered at various times. Med. 8vo. Pp. 548. 1906. Murray. 25s.

Pollard, H. Automatic Pistols. Demy 8vo. Pp. 110. 1920. Pitman. 6s.

Rausenberger, F. The Theory of the Recoil of Guns with Recoil Cylinders. Translated by A. Slater. Demy 8vo. Pp. 154. 1909. Crosby Lockwood. 12s. 6d.

Sydenham, Lord. Fortification: its past Achievements, Recent Developments, and Future Progress. 2nd edn. Med. 8vo. Pp. 312. 1907. Murray. 24s.

Thomsen, C. F. The Field Artillery Officers' Handbook. Oblong Fcap. 8vo. Pp. 48. 1918. Spon. 5s.

ASTRONOMY.

i. HISTORICAL AND BIOGRAPHICAL.

Ball, Sir R. S. Great Astronomers. Demy 8vo. Pp. 371. Pitman. 7s. 6d.

Berry, A. A Short History of Astronomy. Cr. 8vo. Pp. 440. 1898. Murray. 7s. 6d.

Dreyer, J. L. E. History of the Planetary Systems from Thales to Kepler. Demy 8vo. Pp. 432. 1906. Cambridge University Press. 12s. 6d.

Forbes, G. History of Astronomy. New edn. Cr. 8vo. Pp. 163. 1921. Watts. 3s. 6d.

Heath, Sir T. Aristarchus of Samos, the Ancient Copernicus. A History of Greek Astronomy to Aristarchus, together with his Treatise on the sizes and distances of the Sun and Moon; a new Greek Text with Translation and Notes. Med. 8vo. Pp. 434. 1913. Oxford: Clarendon Press. 18s.

Schiaparelli, G. Astronomy in the Old Testament. Authorized Translation, with many corrections and additions. Cr. 8vo. Pp. 186. 1905. Oxford: Clarendon Press. 4s.

ii. GENERAL AND COMPREHENSIVE TREATISES.

Ball, Sir R. S. Elements of Astronomy. Cr. 8vo. Pp. 484. 1917. Longmans. 8s.

— A Treatise on Spherical Astronomy. Demy 8vo. Pp. 518. 1908. Cambridge University Press. 14s.

— A Primer of Astronomy. Reissue. Feap. 8vo. Pp. 236. 1918. Cambridge University Press. 3s.

— The Story of the Heavens. Med. 8vo. Pp. 568. Cassell. 15s.

Ball, Sir R. S. A Popular Guide to the Heavens. 3rd edn. Small 4to. Pp. 96 and 82 Plates. 1910. Geo. Philip. 15s.

— In the High Heavens. A popular account of recent interesting Astronomical events and phenomena. Demy 8vo. Pp. 381. Pitman. 7s. 6d.

Barlow, C. W. C., and Bryan, G. H. Elementary Mathematical Astronomy. 2nd edn. 4th imp. Cr. 8vo. Pp. 456. 1919. University Tutorial Press. 9s. 6d.

Chambers, G. F. Astronomy. Feap. 8vo. Pp. 360. N.D. Hutchinson. 7s. 6d.

— Astronomy: for general readers. Cr. 8vo. Pp. 268. 1918. Pitman. 4s.

— and Smyth, W. H. A Cycle of Celestial Objects. Observed, reduced and discussed. 8vo. Pp. 720. 1881. Oxford: Clarendon Press. 6s.

Chapman, R. W. The Elements of Astronomy for Surveyors. Cr. 8vo. Pp. 257. 1919. Griffin. 5s.

Dolmage, C. G. Astronomy of To-Day. Cr. 8vo. Pp. 363. 1919. Seeley. 7s. 6d.

Dyson, Sir F. W. Astronomy. Large Feap. 8vo. Pp. 247. Dent. 3s. 6d.

— A Primer of Astronomy. Feap. 8vo. Pp. 118. Dent. 2s.

Godfray, H. A Treatise on Astronomy. 4th edn. 8vo. Pp. 336. 1906. Macmillan. 12s. 6d.

Hinks, A. R. Astronomy. Feap. 8vo. Pp. 256. 1919. Williams & Norgate. 2s. 6d.

Lockyer, Sir N. Elementary Lessons in Astronomy. Feap. 8vo. Pp. 416. 1919. Macmillan. 6s. 6d.

— Inorganic Evolution as studied by Spectrum Analysis. 8vo. Pp. 208. 1900. Macmillan. 5s.

Lockyer, Sir N. Stonehenge and other British Stone Monuments Astronomically considered. 2nd edn. Med. 8vo. Pp. 516. 1909. Macmillan. 14s.

— The Meteoritic Hypothesis of the Origin of Cosmical Systems. 8vo. Pp. 576. 1890. Macmillan. 17s.

Maunder, E. W. Astronomy without a Telescope. 3rd imp. Demy 8vo. Pp. 288. 1904. Thacker. 7s.

Newcomb, S. Astronomy for Everybody. Demy 8vo. Pp. 341. Pitman. 7s. 6d.

Parker, G. W. Elements of Astronomy. 5th edn. 8vo. Pp. 264. 1916. Longmans. 8s.

Plummer, H. C. An Introductory Treatise on Dynamical Astronomy. Roy. 8vo. Pp. 364. 1918. Cambridge University Press. 18s.

Proctor, R. A. Light Science for Leisure Hours; Familiar Essays on Scientific Subjects, Natural Phenomena, etc. Cr. 8vo. Pp. 324. 1919. Longmans. 6s. 6d.

— Our Place Among Infinities. Essays contrasting our Little Abode in Space and Time with the Infinities around us. Cr. 8vo. Pp. 296. 1908. Longmans. 6s.

Stirling, W. New Theories in Astronomy. Demy 8vo. Pp. 336. 1906. Spon. 8s. 6d.

Tancock, E. O. The Elements of Descriptive Astronomy. 2nd edn. Cr. 8vo. Pp. 158. 1920. Oxford: Clarendon Press. 3s.

Turner, H. H. Astronomical Discovery. Demy 8vo. Pp. 237. 1904. Arnold. 10s. 6d.

Webb, T. W. Celestial Objects for Common Telescopes. 6th edn. revised by T. E. Espin. 2 vols. Cr. 8vo. 1917. Vol. 1. Pp. 273. Vol. 2. Pp. 328. Longmans. 8s. each Vol.

iii. THE MOON.

Brown, E. W. An Introductory Treatise on the Lunar Theory. Roy. 8vo. Pp. 300. 1896. Cambridge University Press. 15s..

Brown, E. W. The Inequalities in the Motion of the Moon due to the direct Action of the Planets. Roy. 8vo. Pp. 106. 1908. Cambridge University Press. 6s.

Godfray, H. An Elementary Treatise on the Lunar Theory. Cr. 8vo. Pp. 136. 1885. Macmillan. 5s. 6d.

Pickering, W. H. The Moon. A Summary of the Existing Knowledge of our Satellite, with a complete Photographic Atlas. Large Roy. 4to. Pp. 103 and 88 Plates. 1904. Murray. 52s. 6d.

Proctor, R. A. The Moon: Her Motions, Aspect, Scenery and Physical Condition. 8th imp. Cr. 8vo. Pp. 326. 1916. Longmans. 6s.

iv. SOLAR AND STELLAR.

Ball, Sir R. S. In Starry Realms: The Wonders of the Heavens. Demy 8vo. Pp. 371. Pitman. 10s. 6d.

Chambers, G. F. The Story of the Comets. 2nd edn. 8vo. Pp. 288. 1910. Oxford: Clarendon Press. 6s.

Clark, L., and Sadler, H. The Star Guide. Royal 8vo. Pp. 64. 1886. Macmillan. 5s.

Darwin, Sir G. H. The Tides and Kindred Phenomena of the Solar System. 3rd edn. Cr. 8vo. Pp. 437. 1911. Murray. 9s.

Eddington, A. S. Stellar Movements and the Structure of the Universe. 8vo. Pp. 278. 1914. Macmillan. 7s. 6d.

Grew, E. S. The Growth of a Planet. Cr. 8vo. Pp. 364. 1911. Methuen. 7s. 6d.

Jeans, J. H. Problems of Cosmogony and Stellar Dynamics. Roy. 8vo. Pp. 302. 1919. Cambridge University Press. 21s.

Lockyer, Sir N. Recent and Coming Eclipses. 8vo. Pp. 252. 1900. Macmillan. 6s.

— The Sun's Place in Nature. 8vo. Pp. 376. 1897. Macmillan. 12s.

Sampson, R. A. The Sun. Roy. 16mo. Pp. 141. 1914. Cambridge University Press. 2s. 6d.

Young, C. A. *The Sun.* 4th edn. Cr. 8vo. Pp. 387. 1910. Kegan Paul. 7s. 6d.

v. ASTRONOMICAL
ATLASES.

Cottam, A. *Charts of the Constellations.* Imp. 4to. Pp. 327. Stanford. 7s.

Heath, Sir T. *The Twentieth Century Atlas of Popular Astronomy.* 2nd edn. Imperial 8vo. Pp. 180. and 21 coloured Plates. 1908. Johnston. 10s.

Miremont, Comte de. *Popular Star Maps. A Rapid and Easy Method of Finding the Principal Stars.* Portfolio. Large 4to. Geo. Philip. 20s.

Orr, M. A. *Stars of the Southern Skies.* Cr. 8vo. Pp. 104. 1915. Longmans. 3s. 6d.

Proctor, R. A. *Large Star Atlas for Observers and Students.* In 12 Circular Maps. 7th edn. Folio. Pp. 60. 1914. Longmans. 17s. 6d.

— *New Star Atlas for the Library, the School and the Observatory, In Twelve Circular Maps.* 23rd imp. Cr. 8vo. Pp. 104. 1915. Longmans. 6s. 6d.

— *Half Hours with the Stars: a Plain and Easy Guide to the Knowledge of the Constellations. Showing in 12 Maps the position of the principal Star Groups in the Northern Hemisphere night after night throughout each year.* 4to. Longmans. 5s.

Turner, H. H. *The Great Star Map. Being a Brief General Account of the International Project known as the Astrographic Chart.* Cr. 8vo. Pp. 159. 1911. Murray. 3s. 6d.

Weatherhead, R. *The Star Pocket-book, or How to Find Your Way at Night by the Stars.* 16mo. Pp. 92. 1917. Longmans. 2s. 6d.

METEOROLOGY.

- Abercromby, R.** Weather: a Popular Exposition of the Nature of Weather Changes from Day to Day. 6th edn. Cr. 8vo. Pp. 491. 1907. Kegan Paul. 7s. 6d.
- Allingham, W.** Marine Meteorology. for officers of the Merchant Navy. 2nd edn. Cr. 8vo. Pp. 198. 1917. Griffin. 9s.
- Beattie, J. C.** Report of a Magnetic Survey of South Africa. Med. 4to. Pp. 245. 1909. Cambridge University Press. 20s.
- Berry, A. J.** The Atmosphere. Roy. 16mo. Pp. 147. 1913. Cambridge University Press. 2s. 6d.
- Blanford, H. F.** A Practical Guide to the Climates and Weather of India, Ceylon, and Burmah, and the Storms of Indian Seas. 8vo. Pp. 384. 1889. Macmillan. 15s.
- Bonacina, L. G. W.** Climatic Control. 2nd edn. Sm. Cr. 8vo. Pp. 167. 1915. Black. 3s. 6d.
- Brown, C.** Meteorology for Masters and Mates. 5th edn. Demy 8vo. Pp. 96. 1920. James Brown. 3s. 6d.
- Cave, C. J. P.** The Structure of the Atmosphere in Clear Weather. A Study of Soundings with Pilot Balloons. Demy 4to. Pp. 156. 1913. Cambridge University Press. 12s. 6d.
- Chapman, E. H.** The Study of the Weather. Cr. 8vo. Pp. 144. 1919. Cambridge University Press. 4s.
- Chatley, H.** The Force of the Wind. 2nd edn. Cr. 8vo. Pp. 91. 1919. Griffin. 3s. 6d.
- Chree, C.** Studies in Terrestrial Magnetism. 8vo. Pp. 214. 1912. Macmillan. 6s. 6d.
- Clarke, G. A.** Clouds. A Descriptive Illustrated Guide-Book to the Observation and Classification of Clouds. Demy 8vo. Pp. 152 and 40 Plates. 1920. Constable. 21s.
- Dickson, H. N.** Climate and Weather. Fcap. 8vo. Pp. 256. 1911. Williams & Norgate. 2s. 6d.
- Elgie, J. H.** Elgie's Weather Book for the General Reader. Cr. 8vo. Pp. 263. 1920. Wireless Press. 5s.
- Geddes, A. E. M.** Meteorology. An Introductory Treatise. Demy 8vo. Pp. 410. 1921. Blackie. 21s.
- Hepworth, M. W. C.** Notes on Maritime Meteorology. Demy 8vo. Pp. 90. 1907. Geo. Philip. 2s. 6d.
- Horner, D. W.** Meteorology for All: being some Weather Problems explained. Cr. 8vo. Pp. 200. 1919. Witherby. 6s.
- Knox, A.** The Climate of the Continent of Africa. Roy. 8vo. Pp. 563. 1911. Cambridge University Press. 26s.
- Lempfert, R. G. K.** Meteorology. Cr. 8vo. Pp. 196. 1920. Methuen. 7s. 6d.
- Moore, Sir J. W.** Meteorology: Practical and Applied. 2nd edn. Demy 8vo. Pp. 450. 1910. Heinemann. 10s. 6d.
- Rambaut, A. A.** Results of Meteorological Observations made at the Radcliffe Observatory, Oxford, in the years 1911 to 1915. Roy. 8vo. Pp. 232. 1916. Oxford University Press. 15s.
- Scott, R. H.** Elementary Meteorology. 9th edn. Cr. 8vo. Pp. 424. 1918. Kegan Paul. 7s. 6d.

Meteorology.

Shaw, Sir W. N. *Manual of Meteorology. Part IV. The Relation of the Wind to the Distribution of Barometric Pressure.* Roy. 8vo. Pp. 176. 1919. Cambridge University Press. 12s. 6d.

— *Forecasting Weather.* Demy 8vo. 2nd edn. in preparation. Constable.

Stacey, W. F. *Practical Exercises on the Weather and Climate of the British Isles and North-West Europe.* Large Cr. 8vo. Pp. 64. 1919. Cambridge University Press. 2s. 9d.

Taylor, G. *Australian Meteorology: A Text-book, including sections on Aviation and Climatology.* 8vo. Pp. 324. 1920. Oxford: Clarendon Press. 12s. 6d.

Waldo, F. *Modern Meteorology.* Cr. 8vo. Scott Pub. Co. 5s.

MINERALOGY.

i. GENERAL.

- Cole, G. A. J.** *Outlines of Mineralogy for Geological Students.* Cr. 8vo. Pp. 348. 1913. Longmans. 6s.
- Evans, J. W.** *The Determination of Minerals under the Microscope by Means of their Optical Characters.* Demy 8vo. Pp. 34 and Plates. 1915. Murby. 2s. 6d.
- Hatch, F. H.** *Mineralogy.* 5th edn. Cr. 8vo. Pp. 250. 1916. Pitman. 6s.
- McGrigor, G. D.** *Field Analysis of Minerals: for the Prospector, Mining Engineer, etc.* Cr. 8vo. Pp. 86. 1915. Technical Bookshop. 3s. 6d.
- Miers, Sir H. A.** *Mineralogy: An Introduction to the Scientific Study of Minerals.* New edn. in the Press. Macmillan.
- Rutley, F.** *Elements of Mineralogy.* Revised by H. H. Read. New edn. Cr. 8vo. Pp. 416. 1918. Murby. 6s.
- Smith, H. G.** *Minerals and the Microscope. An Introduction to the Study of Petrology.* 2nd edn. Cr. 8vo. Pp. 128. 1919. Murby. 5s.
- Spencer, L. J.** *The World's Minerals. A description of the more common minerals, and a few other important species; with 163 coloured figures.* Demy 8vo. Pp. 340. 1920. Chambers. 20s.
- Bragg, Sir W. H., and W. L.** *X-Rays and Crystal Structure.* 5th edn. Demy 8vo. Pp. 229. 1918. Bell. 10s. 6d.
- Fock, A.** *Introduction to Chemical Crystallography.* Translated and edited by Sir W. J. Pope. Cr. 8vo. Pp. 206. 1895. Oxford: Clarendon Press. 5s.
- Groth, P.** *An Introduction to Chemical Crystallography.* Translated by H. Marshall. Cr. 8vo. Pp. 136. 1906. Gurney & Jackson. 4s.
- Hilton, H.** *Mathematical Crystallography, and the Theory of Groups and Movements; with an Account of the Geometrical Theory of Crystal Structure.* 8vo. Pp. 274. 1903. Oxford: Clarendon Press. 14s.
- Lewis, W. J.** *A Treatise on Crystallography.* Demy 8vo. Pp. 624. 1899. Cambridge University Press. 16s.
- Story-Maskelyne, N.** *Crystallography. A Treatise.* Cr. 8vo. Pp. 534. 1893. Oxford: Clarendon Press. 12s. 6d.
- Tutton, A. E. H.** *Crystallography and Practical Crystal Measurement.* 8vo. Pp. 946. 1911. Macmillan. 40s.
- *Crystals.* Cr. 8vo. Pp. 311. 1911. Kegan Paul. 7s. 6d.

ii. CRYSTALLOGRAPHY.

- Beale, Sir W. P.** *An Amateur's Introduction to Crystallography from Morphological Observations.* 8vo. Pp. 228. 1915. Longmans. 4s. 6d.

iii. ECONOMIC MINERALOGY.

- Anderson, J. W.** *Prospector's Handbook. A Guide for the Prospector in search of metal-bearing or other valuable minerals.* 13th edn. Cr. 8vo. Pp. 207. 1919. Crosby Lockwood. 5s.

- Beyschlag, F., Vogt, J. H. L., and Krusch, P.** The Deposits of the Useful Minerals and Rocks: their Origin, Form and Content. Translated by S. J. Truscott. In 3 Vols. 8vo. Vol. 1. Pp. 542. 1914. 21s. Vol. 2. Pp. 760. 1916. 25s. Vol. 3. in preparation. Macmillan.
- Cahen, E., and Wootton, W. O.** The Mineralogy of the Rarer Metals. A Handbook for Prospectors. 2nd edn. Pocket Size. Pp. 246. 1920. Griffin. 10s. 6d.
- Calvert, A. F.** Mineral Resources of Minas Geraes (Brazil). 8vo. Pp. 100 and 127 Plates. 1915. Spon. 9s.
- Collins, J. H.** Observations on the West of England Mining Region. An Account of the Mineral Deposits and Economic Geology of Cornwall. Fcap. 4to. Pp. 683. 1912. Technical Bookshop. 21s.
- Corder, G. A.** The Miner's Geology and Prospector's Guide, for Students, Miners, Prospectors, and Explorers. Cr. 8vo. Pp. 224. 1914. Spon. 6s.
- Cox, S. H.** Prospecting for Minerals. A Practical Handbook for Prospectors, Explorers, Settlers, and all interested in the Opening up and Development of New Lands. 7th edn. Cr. 8vo. Pp. 271. 1918. Griffin. 5s.
- Crook, T.** Economic Mineralogy. A Practical Guide to the Study of Useful Minerals. Demy 8vo. Pp. 504. 1921. Longmans. 25s.
- Curtis, A. H.** Manganese Ores. (Imperial Institute Monographs on Mineral Resources). Demy 8vo. Pp. 128. 1919. Murray. 3s. 6d.
- Davies, G. M.** Tin Ores. (Imperial Institute Monographs on Mineral Resources). Demy 8vo. Pp. 121. 1919. Murray. 3s. 6d.
- Duly, S. J.** The Natural Wealth of Britain: Its Origin and Exploitation. Cr. 8vo. Pp. 320. 1919. Hodder & Stoughton. 6s.
- Fairie, J.** Notes on Lead Ores: Their Distribution and Properties. Cr. 8vo. Pp. 64. 1901. Scott, Greenwood. 1s.
- Ghambashidze, D.** Mineral Resources of Georgia and Caucasia. Manganese Industry of Georgia. 8vo. Pp. 182. 1919. Allen & Unwin. 8s. 6d.
- Goodchild, W.** Precious Stones. With a Chapter on Artificial Stones. Ex. Cr. 8vo. Pp. 319. 1908. Constable. 7s. 6d.
- Hall, T. C. F.** Lead Ores. (Imperial Institute Monographs on Mineral Resources). Demy 8vo. Pp. 137. 1921. Murray. 6s.
- Lumb, A. D.** The Platinum Metals: (Monographs on Mineral Resources with Special reference to the British Empire). Demy 8vo. Pp. 73. 1920. Murray. 3s. 6d.
- Mastin, J.** The Chemistry, Properties, and Tests of Precious Stones. Fcap. 16mo. Pp. 114. 1911. Spon. 5s.
- Merritt, W. H.** A Practical Manual of Field Testing for Gold and Silver. 2nd edn. Fcap. 8vo. Pp. 154. 1911. Crosby Lockwood. 6s.
- Rankin, D. J.** Prospecting for Gold. Fcap. 8vo. Pp. 192. 1901. Crosby Lockwood. 7s. 6d.
- Rastall, R. H., and Wilcockson, W. H.** Tungsten Ores. (Monographs on Mineral Resources with special Reference to the British Empire). Demy 8vo. Pp. 90. 1920. Murray. 3s. 6d.
- Ronaldson, J. H.** Coal. (Monographs on Mineral Resources with special reference to the British Empire). 8vo. Pp. 175. 1920. Murray. 6s.
- Smith, G. F. H.** Gem-Stones, and their distinctive characters. 2nd edn. Cr. 8vo. Pp. 326. 1919. Methuen. 7s. 6d.
- Stokes, R. S. G.** Mines and Minerals of the British Empire. Demy 8vo. Pp. 423. 1908. Arnold. 15s.
- Summers, A. I.** Asbestos and the Asbestos Industry. The World's Most Wonderful Mineral: and other Fire-proof Materials. Cr. 8vo. Pp. 116. 1919. Pitman. 3s.

GEOLOGY.

1. GENERAL.

- Bird, C.** *Elementary Geology.* Cr. 8vo. Pp. 260. 1913. Longmans. 5s.
- *Advanced Geology. A Manual for Students in Advanced Classes and for General Readers.* Cr. 8vo. Pp. 438. 1911. Longmans. 7s. 6d.
- Chamberlin, T. C., and Salisbury, R. D.** *Geology.* 3 Vols. Demy 8vo. Vol. 1. Processes and their Results. Vol. 2. Earth History—Genesis—Palæozoic. Pp. 692. 1919. Vol. 3. Earth History—Mesozoic—Cenozoic. Pp. 624. 1909. Murray. 25s. each.
- *Geology. Shorter Course.* Demy 8vo. Murray. 25s.
- Cole, G. A. J.** *Aids in Practical Geology. With a Section on Palæontology.* 7th edn. Cr. 8vo. Pp. 447. 1919. Griffin. 10s. 6d.
- *Open-Air Studies in Geology: An Introduction to Geology Out-of-doors.* 2nd edn. Cr. 8vo. Pp. 334. 1902. Griffin. 8s. 6d.
- *Common Stones; Unconventional Essays in Geology.* Cr. 8vo. Pp. 259. 1921. Melrose. 6s.
- Gardiner, C. J.** *An Introduction to Geology.* Cr. 8vo. Pp. 186. 1914. Bell. 3s. 6d.
- Geikie, Sir A.** *Text-Book of Geology,* 4th edn. 2 Vols. Med. 8vo. Pp. 724., 778. 1903. Macmillan. 30s.
- *Class Book of Geology.* 5th edn. Cr. 8vo. Pp. 480. 1919. Macmillan. 7s. 6d.
- *Outlines of Field Geology.* 5th edn. Gl. 8vo. Pp. 276. 1912. Macmillan. 8s. 6d.
- Geikie, J.** *Structural and Field Geology. For Students of Pure and Applied Science.* 4th edn. 8vo. Pp. 478. 1920. Oliver & Boyd. 24s.
- Geikie, J.** *Outlines of Geology: for Junior Students and General Readers.* 4th edn. Large Post 8vo. Pp. 424. Stanford. 12s.
- Green, A. H.** *First Lessons in Modern Geology.* Edited by J. F. Blake. Cr. 8vo. Pp. 220. 1898. Oxford: Clarendon Press. 4s.
- Gregory, J. W.** *Geology of To-Day.* Cr. 8vo. Pp. 328. 1919. Seeley. 7s. 6d.
- *A Primer of Geology.* Fcap. 8vo. Pp. 140. Dent. 2s.
- Judd, J. W. (edited by).** *The Student's Lyell. The Principles and Methods of Geology, as applied to the Investigation of the Past History of the Earth and its Inhabitants.* 2nd edn. Large Cr. 8vo. Pp. 645. 1911. Murray. 12s.
- Lake, P., and Rastall, R. H. A.** *Text Book of Geology.* 3rd edn. Demy 8vo. Pp. 522. 1920. Arnold. 21s.
- Lapworth, C.** *Intermediate Text-book of Geology.* 12th edn. Cr. 8vo. Pp. 431. Blackwood. 7s. 6d.
- Marr, J. E.** *An Introduction to Geology.* Cr. 8vo. Pp. 238. 1905. Cambridge University Press. 4s. 6d.
- Park, J.** *A Text-book of Geology.* 2nd edn. in preparation. Griffin.
- Reed, F. R. C.** *The Geology of the British Empire.* 8vo. Pp. 488. 1921. Arnold. 40s.
- Roberts, R. D.** *An Introduction to Modern Geology.* Cr. 8vo. Pp. 270. 1906. Murray. 6s.
- Sorsbie, R. F.** *Geology for Engineers.* Cr. 8vo. Pp. 450. 1911. Griffin. 12s. 6d.

Wallace, A. R. *Island Life, or the Phenomena and Causes of Insular Faunas and Floras. Including a revision and attempted solution of the problem of geological climates.* Extra Cr. 8vo. Pp. 584. 1911. Macmillan. 8s. 6d.

Watts, W. W. *Geology for Beginners.* 3rd edn. Cr. 8vo. Pp. 370. 1920. Macmillan. 3s. 6d.

ii. HISTORY.

Geikie, Sir A. *Charles Darwin as Geologist.* Cr. 8vo. Pp. 91. 1909. Cambridge University Press. 2s.

— *The Founders of Geology.* 2nd edn. 8vo. Pp. 486. 1905. Macmillan. 10s.

Woodward, H. B. *History of Geology.* Cr. 8vo. Pp. 160. 1911. Watts. 3s. 6d.

Zittel, K. A. von. *History of Geology and Palæontology.* Cr. 8vo. Pp. 562. 1901. Scott Pub. Co. 7s. 6d.

iii. SEISMOLOGY AND ENDOGENETIC STRUCTURES.

Anderson, T. *Volcanic Studies in Many Lands.* 1st Series (out of print). 2nd Series. The Text by Prof. T. G. Bonney. Cr. 4to. Murray. 15s.

Bonney, T. G. *Volcanoes: their Structure and Significance.* Large Cr. 8vo. Pp. 379. 1912. Murray. 9s.

Davison, C. *The Origin of Earthquakes.* Roy. 16mo. Pp. 144. 1912. Cambridge University Press. 2s. 6d.

— *A Manual of Seismology.* Demy 8vo. Pp. 268. 1921. Cambridge University Press. 21s.

— *A Study of Recent Earthquakes.* Cr. 8vo. Scott Pub. Co. 7s. 6d.

Fisher, O. *Physics of the Earth's Crust.* 2nd edn. 8vo. Pp. 472. 1889. Macmillan. 12s.

Geikie, Sir A. *The Ancient Volcanoes of Great Britain.* 2 vols. Super Roy. 8vo. Pp. 502., 508. 1897. Macmillan. 36s.

Gregory, J. W. *The Nature and Origin of Fiords.* Demy 8vo. Pp. 542. 1913. Murray. 21s.

— *The Making of the Earth.* Fcap. 8vo. Pp. 256. 1912. Williams & Norgate. 2s. 6d.

Hull, E. *Volcanoes, Past and Present.* Cr. 8vo. Scott Pub. Co. 5s.

Judd, J. W. *Volcanoes: what they are and what they teach.* 7th edn. Cr. 8vo. Pp. 389. 1907. Kegan Paul. 7s. 6d.

Knott, C. G. *Physics of Earthquake Phenomena.* 8vo. Pp. 296. 1908. Oxford: Clarendon Press. 14s.

Love, A. E. H. *Some Problems of Geodynamics.* Roy. 8vo. Pp. 189. 1911. Cambridge University Press. 16s.

Milne, J. *Earthquakes and other Earth Movements.* 6th edn. Cr. 8vo. Pp. 404. 1913. Kegan Paul. 7s. 6d.

— *Seismology.* 2nd edn. Cr. 8vo. Pp. 345. 1908. Kegan Paul. 7s. 6d.

Schwarz, E. H. L. *Causal Geology.* Demy 8vo. Pp. 248. 1910. Blackie. 7s. 6d.

Suess, E. *The Face of the Earth.* Translated by H. Sollas. 4 vols. Roy. 8vo. Vol. 1. Pp. 616. 1904. 25s. Vol. 2. Pp. 562. 1906. 25s. Vol. 3. Pp. 406. 1908. 18s. Vol. 4. Pp. 682. 1909. 25s. Oxford: Clarendon Press.

Swaine, A. T. *The Earth, Its Genesis and Evolution.* Cr. 8vo. Pp. 296. 1913. Griffin. 9s.

Walker, G. W. *Modern Seismology.* 8vo. Pp. 100. 1913. Longmans. 6s. 6d.

iv. LAND FORMS AND EXO-GENETIC STRUCTURES.

Avebury, Lord. *The Scenery of Switzerland, and the Causes to which it is Due.* 5th edn. Cr. 8vo. Pp. 538. 1913. Macmillan. 7s.

Ball, Sir R. S. *The Cause of an Ice Age.* 3rd edn. Cr. 8vo. Pp. 186. 1906. Kegan Paul. 3s. 6d.

- Bonney, S. G.** *Ice Work, Present and Past.* 2nd edn. Cr. 8vo. Pp. 309. 1903. Kegan Paul. 7s. 6d.
- Bonney, T. G.** *The Work of Rain and Rivers.* Roy. 16mo. Pp. 144. 1912. Cambridge University Press. 2s. 6d.
- Cole, G. A. J.** *The Growth of Europe.* Fcap. 8vo. Pp. 256. 1914. Williams & Norgate. 2s. 6d.
- Geikie, Sir A.** *Earth Sculpture; or the Origin of Land Forms.* 2nd edn. Large Cr. 8vo. Pp. 324. 1909. Murray. 7s. 6d.
- Marr, J. E.** *The Scientific Study of Scenery.* 5th edn. Cr. 8vo. Pp. 378. 1918. Methuen. 7s. 6d.
- Reid, C.** *Submerged Forests.* Roy. 16mo. Pp. 129. 1913. Cambridge University Press. 2s. 6d.
- Tyndall, J.** *Forms of Water: in Clouds and Rivers, Ice and Glaciers.* 13th edn. Cr. 8vo. Pp. 224. 1909. Kegan Paul. 7s. 6d.
- Wright, G. F.** *Man and the Glacial Period.* Cr. 8vo. Pp. 400. 1893. Kegan Paul. 7s. 6d.
- Wright, W. B.** *The Quaternary Ice Age.* 8vo. Pp. 488. 1914. Macmillan. 21s.
- v. PETROLOGY.**
- Harker, A.** *Petrology for Students. An Introduction to the Study of Rocks under the Microscope.* 5th edn. Cr. 8vo. Pp. 308. 1919. Cambridge University Press. 8s. 6d.
- *The Natural History of Igneous Rocks.* Demy 8vo. Pp. 400. 1909. Methuen. 15s.
- Hatch, F. H.** *Petrographical Tables: an Aid to the Microscopical Determination of Rock Forming Minerals. From the German of Prof. Rosenbusch.* Cr. 4to. Pp. 36. Allen & Unwin. 3s. 6d.
- **and Rastall, R. H.** *Text Book of Petrology.* Cr. 8vo. Vol. 1. *Igneous Rocks.* 6th edn. Pp. 484. 1914. Vol. 2. *The Sedimentary Rocks.* Pp. 440. 1913. Allen & Unwin. 7s. 6d. each.
- Holmes, A.** *The Nomenclature of Petrology: with References to selected Literature.* Cr. 8vo. Pp. 284. 1920. Murby. 12s. 6d.
- *Petrographic Methods and Calculations, with some Examples of Results Achieved.* 8vo. Pp. 536. 1921. Murby. 31s. 6d.
- Mennell, F. P.** *A Manual of Petrology.* Demy 8vo. Pp. 260. 1910. Chapman & Hall. 8s. 6d.
- Milner, H. B., and Part, G. M.** *Methods in Practical Petrology.* Cr. 8vo. Pp. 73. 1916. Heffer. 3s. 6d.
- Rhodes, J. E. W.** *Micropetrology for Beginners: an Introduction to the Use of the Microscope in the Examination of Thin Sections of Igneous Rocks.* Cr. 8vo. Pp. 131. 1912. Longmans. 3s. 6d.
- Rutley, F.** *The Study of Rocks: an Elementary Text-book of Petrology.* 10th imp. Cr. 8vo. Pp. 336. 1909. Longmans. 6s. 6d.
- vi. STRATIGRAPHY.**
- Jukes-Browne, A. J.** *The Student's Handbook of Stratigraphical Geology.* 2nd edn. Large Cr. 8vo. Pp. 668. 1912. Stanford. 12s. *
- Kayser, E.** *Text-Book of Comparative Geology.* Translated by P. Lake. 2nd edn. Demy 8vo. Pp. 426. 1895. Allen & Unwin. 10s. 6d.
- Marr, J. E.** *The Principles of Stratigraphical Geology.* Cr. 8vo. Pp. 312. 1905. Cambridge University Press. 8s. 6d.
- vii. GEOLOGICAL MAPS.**
- Dwerryhouse, A. R.** *Geological and Topographical Maps: their Interpretation and Use. A Handbook for the Geologist and Civil Engineer.* 2nd edn. Demy 8vo. Pp. 141. 1919. Arnold. 6s.
- Harker, A.** *Notes on Geological Map Reading.* 8vo. Pp. 64. 1920. Heffer. 3s. 6d.
- Woodward, H. B.** (edited by). *Stanford's Geological Atlas of Great Britain and Ireland: with Plates of Characteristic Fossils.* 3rd edn. Cr. 8vo. Pp. 200 and 36 Maps. Stanford. 15s.

viii. TOPOGRAPHICAL GEOLOGY.

- Ashton, W.** The Evolution of a Coast Line. Barrow to Aberystwyth and the Isle of Man. With Notes on Lost Towns, Submarine Discoveries, etc. Demy 8vo. Pp. 316. 1920. Stanford. 10s.
- Davies, G. MacD.** Geological Excursions Round London. Cr. 8vo. Pp. 164. 1914. Murby. 4s.
- Dron, R. W.** The Coal Fields of Scotland. A Topographical and Geological description of the mining areas of Scotland, with details of the various seams, and many maps of the coal-fields. Demy 8vo. Pp. 368. N.D. Blackie. 15s.
- Falconer, J. D.** Geology and Geography of Northern Nigeria. 8vo. Pp. 312. 1911. Macmillan. 10s.
- Hatch, F. H., and Corstorphine, G. S.** Geology of South Africa. 2nd edn. 8vo. Pp. 410. 1909. Macmillan. 25s.
- Jukes-Browne, A. J.** The Building of the British Isles. A History of the Construction and Geographical Evolution of the British Region. 3rd edn. Large Post 8vo. Pp. 461. 1911. Stanford. 12s.
- Marr, J. E.** The Geology of the Lake District. Demy 8vo. Pp. 232. 1916. Cambridge University Press. 14s.
- Ramsay, Sir A. C.** Physical Geology and Geography of Great Britain. 6th edn. Edited by H. B. Woodward. Post 8vo. Pp. 421. Stanford. 10s. 6d.
- Reed, F. R. C.** A Handbook to the Geology of Cambridgeshire. Cr. 8vo. Pp. 286. 1879. Cambridge University Press. 10s.
- Ritchie, A. E.** The Kent Coal Field: its Evolution and Development. Cr. 8vo. 1920. "Iron and Coal Trades Review." 7s. 6d.
- Schwarz, E. H. L.** South African Geology. Cr. 8vo. Pp. 200. 1912. Blackie. 4s. 6d.
- Wadia, D. N.** Geology of India. 8vo. Pp. 418. 1919. Macmillan. 18s.

- Wang, C. Y.** A Bibliography of the Mineral Wealth and Geology of China. Cr. 8vo. Pp. 70. 1921. Griffin. 3s. 6d.

ix. ECONOMIC GEOLOGY.

- Boswell, P. G. H.** A Memoir on British Resources of Refractory Sands for Furnace and Foundry Purposes. With Chemical Analyses by H. F. Harwood and A. A. Elaridge. Demy 8vo. Pp. 246. 1918. Taylor and Francis. 8s. 6d.
- Calvert, A. F.** Nigeria and its Tin-fields. 2nd edn. Cr. 8vo. Pp. 488. 1912. Stanford. 5s.
- Craig, E. H. C.** Oil Finding. An Introduction to the Geological Study of Petroleum. 2nd edn. Demy 8vo. Pp. 336. 1920. Arnold. 16s.
- Danby, A.** Natural Rock Asphalts and Bitumens. Their Geology, History, Properties and Industrial Application. Cr. 8vo. Pp. 253. 1913. Constable. 8s. 6d.
- Gibson, W.** The Geology of Coal and Coal Mining. 2nd edn. in Preparation. Arnold.
- Howe, J. A.** The Geology of Building Stones. Cr. 8vo. Pp. 463. 1910. Arnold. 8s. 6d.
- Park, J.** Mining Geology. A Text-Book for Mining Students and Miners. 4th edn. Cr. 8vo. Pp. 321. 1918. Griffin. 9s.
- Phillips, J. A.** A Treatise on Ore Deposits. 2nd edn. revised by H. Louis. 8vo. Pp. 968. 1896. Macmillan. 36s.
- Thomas, H. H., and MacAlister, D. A.** The Geology of Ore Deposits. 2nd imp. Cr. 8vo. Pp. 427. 1920. E. Arnold. 8s. 6d.
- Thompson, A. B.** Oil-Field Development and Petroleum Mining. New edn. in preparation. Crosby Lockwood.
- Oil Fields of Russia and the Russian Petroleum Industry. 2nd edn. Med. 8vo. Pp. 523. Crosby Lockwood. 21s.
- Woodward, H. B.** The Geology of Soils and Substrata. Cr. 8vo. Pp. 382. 1912. Arnold. 8s. 6d.

PALÆONTOLOGY.

i. GENERAL.

Davies, A. M. An Introduction to Palæontology. Cr. 8vo. Pp. 426. 1920. Murby. 12s. 6d.

Etheridge, R. Fossils of the British Islands, Stratigraphically and Zoologically arranged. Vol. 1. Palæozoic. Roy. 4to. Pp. 476. 1888. Oxford: Clarendon Press. 30s.

Hawkins, H. L. Invertebrate Palæontology: An Introduction to the Study of Fossils. Cr. 8vo. Pp. 245. 1920. Methuen. 6s. 6d.

Hutchinson, H. N. Extinct Monsters and Creatures of Other Days. A Popular Account of some of the larger forms of Ancient Animal Life. New edn. Demy 8vo. Pp. 362. 1910. Chapman and Hall. 10s. 6d.

Lankester, Sir E. R. Extinct Animals. New edn. Ex. Cr. 8vo. Pp. 346. 1920. Constable. 5s.

Nicholson, H. A., and Lydekker, R. A Manual of Palæontology for the use of Students. With a General Introduction on the Principles of Palæontology. 2 Vols. 3rd edn. 8vo. Pp. 1,653. 1889. Blackwood. 63s.

Pelly, S. A. Glossary and Notes on Vertebrate Palæontology. Fcap. 8vo. Pp. 119. 1918. Methuen. 5s.

Woods, H. Palæontology—Invertebrat. 5th edn. Cr. 8vo. Pp. 420. 1919. Cambridge University Press. 12s. 6d.

Zittel, K. A. von., and Eastman, C. R. Text Book of Palæontology. Med. 8vo. Vol. 1. 2nd edn. Pp. 852. 1913. 31s. 6d. Vol. 2. Pp. 292. 1902. 12s. 6d. Macmillan.

ii. PALÆOBOTANY.

Arber, E. A. N. The Natural History of Coal. Roy. 16mo. Pp. 173. 1912. Cambridge University Press. 2s. 6d.

Scott, D. H. Studies in Fossil Botany. Part 1. Pteridophyta. 3rd edn. Demy 8vo. Pp. 458. 1920. Black. 25s.

Seward, A. C. Links with the Past in the Plant World. Roy. 16mo. Pp. 150. 1911. Cambridge University Press. 2s. 6d.

— Fossil Plants. A Text Book for Students of Botany and Geology. 4 Vols. Demy 8vo. Vol. 1. Pp. 470. 1898. 12s. Vol. 2. Pp. 646. 1910. 17s. 6d. Vol. 3. Pp. 674. 1917. 20s. Vol. 4. Pp. 560. 1919. 22s. 6d. Cambridge University Press.

Solms-Laubach, G. Fossil Botany: being an Introduction to Palæophytology from the standpoint of a Botanist. Translated by H. E. F. Garnsey. Revised by I. B. Balfour. Roy. 8vo. Pp. 414. 1891. Oxford: Clarendon Press. 15s.

Stopes, M. C. Ancient Plants. Being a simple account of the Past Vegetation of the Earth and of the recent important discoveries made in this realm of Nature Study. Demy 8vo. Pp. 187. 1910. Blackie. 7s. 6d.

MINING.

1. GENERAL.

- Alford, C. J.** Mining Law of the British Empire. Cr. 8vo. Pp. 312. 1906. Griffin. 10s. 6d.
- Burnham, M. H.** Modern Mine Valuation. Med. 8vo. Pp. 171. 1912. Griffin. 12s. 6d.
- Byrom, T. H.** An Elementary Class-Book of Physics and Chemistry of Mining. 3rd edn. Cr. 8vo. Pp. 208. 1918. Crosby Lockwood. 4s. 6d.
- Coppock, J. B., and Lodge, G. A.** An Introduction to Mining Science: A Theoretical and Practical Text-book for Mining Students. Cr. 8vo. Pp. 240. 1919. Longmans. 4s.
- Field, E. R.** The Mining Engineers' Report Book and Directors' and Shareholders' Guide to Mining Reports; with Tables and Calculations. 3rd edn. Pocket size. 1909. Griffin. 3s. 6d.
- Forrest, S. N.** Mining Mathematics—Junior Course. 6th imp. Cr. 8vo. Pp. 312. 1920. Arnold. 4s. 6d.
- Mining Mathematics—Senior Course. 2nd edn. Cr. 8vo. Pp. 336. 1920. Arnold. 5s.
- Forster, G.** Safety-Lamps in Mines. Demy 8vo. Pp. 83. 1914. Routledge. 2s. 6d.
- Foster, Sir C. Le N.** The Elements of Mining and Quarrying. An Introductory Text-book for Mining Students. 4th edn. Cr. 8vo. Pp. 341. 1919. Griffin. 9s.
- Ore and Stone Mining. 7th edn. Revised by S. H. Cox. Roy. 8vo. Pp. 829. 1910. Griffin. 34s.
- Greenwell, A., and Elsdon, J. V.** Practical Stone Quarrying. Med. 8vo. Pp. 564. 1913. Crosby Lockwood. 15s.
- Hatch, F. H., and Valentine, E. J.** Mining Tables. Being a Comparison of the Unit of Weight, Measure, Currency, Mining Area, etc., of different countries; together with Tables, Constants, and other data useful to Mining Engineers and Surveyors. 8vo. Pp. 208. 1907. Macmillan. 6s.
- Howe, J. A.** Stones and Quarries. Cr. 8vo. Pp. 147. 1920. Pitman. 3s.
- Lamprecht, R.** Recovery Work after Pit Fires. Translated from the German. Demy 8vo. Pp. 175. 1901. Scott, Greenwood. 12s. 6d.
- Lawn, J. G.** Mine Accounts and Mining Book-keeping, for Students, Managers, Secretaries, and others. Edited by Sir C. Le N. Foster. 7th edn. Large 8vo. Pp. 158. 1911. Griffin. 10s. 6d.
- Mawson, F.** Mining Hand-Sketching and Drawing. Imp. 8vo. Pp. 47 and 20 Plates. 1915. Spon. 2s. 6d.
- O'Donahue, T. A.** The Valuation of Mineral Property: Rules, and Tables. Demy 8vo. Pp. 166. 1910. Crosby Lockwood. 8s. 6d.
- Power, F. D.** Pocket Book for Miners and Metallurgists: Rules, Formulae, Tables, and Notes for Use in Field and Office Work. 4th edn. Fcap. 8vo. Pp. 385. 1920. Crosby Lockwood. 7s. 6d.
- Redmayne, Sir R. A. S., and Stone, G.** The Ownership and Valuation of Mineral Property in the United Kingdom. 8vo. Pp. 262. 1920. Longmans. 12s. 6d.
- Schwartz, Dr. von.** Fire and Explosion Risks: A Handbook of the Detection, Investigation and Prevention of Fires and Explosions. Large 8vo. Pp. 378. (Reprint) 1918. Griffin. 18s.

Skinner, W. R. (edited by). *The Mining Manual and Mining Year Book, 1921.* Demy 8vo. Pp. 919. March, 1921. Simpkin, Marshall. 20s.

ii. COAL MINING.

Bulman, H. F. *Coal Mining and the Coal Miner.* 8vo. Pp. 350. 1920. Methuen. 15s.

— and **Redmayne, Sir R. A. S.** *Colliery Working and Management.* 2nd edn. in preparation. Crosby Lockwood.

Burns, D. *The Elements of Coal Mining.* Cr. 8vo. Pp. 244. 1917. Arnold. 3s. 6d.

— *Safety in Coal Mines, A Treatise in Fundamental Principles for Firemen, Colliery Managers, and other Workers in Mines.* Sm. Cr. 8vo. Pp. 158. n.d. Blackie. 2s. 6d.

— and **Kerr G. L.** *The Modern Practice of Coal Mining.* Med. 8vo. Part 1. *Geology and Boring.* Pp. 102. 1919. 5s. Part 2. *Drills and Drilling—Coal Cutting Machinery.* Pp. 173. 1919. 6s. Part 3. *Sinking and Fitting Shafts.* Pp. 281. 1919. 6s. Part 4. *Explosives and Blasting—Transmission of Power.* Pp. 170. 1920. 6s. Pitman.

Cantrill, T. G. *Coal Mining.* Roy. 16mo. Pp. 159. 1914. Cambridge University Press. 2s. 6d.

Cockin, T. H. *Practical Coal Mining.* 7th imp. Cr. 8vo. Pp. 440. 1920. Crosby Lockwood. 6s. 6d.

Hughes, H. W. *A Text-Book of Coal Mining: for the Use of Colliery Managers and others engaged in Coal-Mining.* 6th edn. Demy 8vo. Pp. 563. 1917. Griffin. 30s.

Jones, L. A., and Bellot, H. H. L. *The Miner's Guide to the Law Relating to Coal Mines.* 3rd edn. Cr. 8vo. Pp. 398. 1914. Methuen. 3s. 6d.

Kerr, G. L. *Elementary Coal Mining: for the Use of Students, Miners, and others preparing for Examinations.* 6th edn. Cr. 8vo. Pp. 261. 1921. Griffin. 6s.

Kerr, G. L. *Practical Coal Mining: A Manual for Managers, Under-Managers, Colliery Engineers, and others.* 7th edn. Large Cr. 8vo. Pp. 789. 1921. Griffin. 16s.

Parker, J. *A Text-book of Coal Mining Science.* 8vo. Pp. 432. 1916. Gurney & Jackson. 4s. 6d.

Peel, R. *An Elementary Text-Book of Coal Mining.* 19th edn. Cr. 8vo. Pp. 382. n.d. Blackie. 3s. 6d.

Redmayne, Sir R. A. S. *Modern Practice in Mining.* 4 Vols. 8vo. Vol. 1. *Coal: Its Occurrence, Value and Methods of Boring.* 2nd edn. Pp. 216. 1919. 10s. 6d. Vol. 2. *The Sinking of Shafts.* 2nd edn. Pp. 290. 1920. 10s. 6d. Vol. 3. *Methods of Working Coal.* Pp. 222. 1914. 8s. 6d. Vol. 4. *The Ventilation of Mines.* 2nd edn. Pp. 252. 1918. 10s. 6d. Longmans.

Riemer, J. *Shaft-Sinking in Difficult Cases.* Translated by J. W. Brough. Med. 8vo. Pp. 134. 1907. Griffin. 12s. 6d.

Sim, J., and Wylie, A. M. *Laboratory Work for Coal-Mining Students.* Cr. 8vo. Pp. 144. 1915. Arnold. 3s.

Tonge, J. *The Principles and Practice of Coal Mining.* Cr. 8vo. Pp. 372. 1906. Macmillan. 4s.

Wilson, F. H. *Coal: Its Origin, Method of Working, and Preparation for the Market.* Cr. 8vo. Pp. 138. 1913. Pitman. 3s.

iii. BLASTING, VENTILATION, AND COMPRESSED AIR.

Daw, A. W., and Z. W. *The Blasting of Rock in Mines, Quarries, Tunnels, etc.* 2nd edn. 8vo. Pp. 316. 1909. Spon. 15s.

Guttmann, O. *Blasting and the Use of Explosives.* 2nd edn. Large 8vo. Pp. 197. 1906. Griffin. 10s. 6d.

Maurice, W. *The Shot-Firer's Guide. A Practical Manual on Blasting.* Demy 8vo. Pp. 215. n.d. Benn Bros. 5s. 6d.

Penman, D. Compressed Air Practice in Mining. 2nd edn. in preparation. Griffin.

Wabner, R. Ventilation in Mines. Translated from the German. Roy. 8vo. Pp. 240. 1903. Scott, Greenwood. 12s. 6d.

iv. ELECTRICITY APPLIED TO MINING.

Burns, D. Electrical Practice in Collieries. A Manual for Colliery Managers, Engineers and Mining Students. 5th edn. Cr. 8vo. Pp. 417. 1920. Griffin. 10s. 6d.

Duncan, W. G., and Penman, D. The Electrical Equipment of Collieries. Demy 8vo. Pp. 310. 1908. Scott, Greenwood. 12s. 6d.

Freudemacher, P. W. Electric Mining Installations. Fcap. 8vo. Pp. 191. 1919. Constable. 2s. 6d.

Lupton, A., Parr, G. D. A., and Perkin, H. Electricity as Applied to Mining. 2nd edn. Med. 8vo. Pp. 300. 1906. Crosby Lockwood. 12s. 6d.

Maurice, W. Electric Blasting Apparatus and Explosives. Demy 8vo. Pp. 176. N.D. Benn Bros. 10s. 6d.

Patchell, W. H. Application of Electric Power to Mines and Heavy Industries. Demy 8vo. Pp. 348. 1913. Constable. 12s. 6d.

Paterson, G. W. L. Electric Mine Signalling Installations. Cr. 8vo. Pp. 204. 1914. Constable. 5s.

Walker, S. F. Electric Mining Machinery. Demy 8vo. Pp. 387. 1919. Pitman. 15s.

— Electricity in Mining. Demy 8vo. Pp. 405. 1907. Harper. 10s. 6d.

v. MINING FOR GOLD, DIAMONDS, ETC.

Charleton, A. G. Gold Mining and Milling in Western Australia, with Notes on Telluride Treatment, Costs, and Mining Practice in other Fields. 8vo. Pp. 650. 1903. Spon. 12s. 6d.

Cleland, E. D. West Australian Mining Practice. Post 4to. Pp. 267. 1911. Technical Bookshop. 10s. 6d.

Denny, G. A. Drilling for Gold and Other Minerals. Med. 8vo. Pp. 168. 1900. Crosby Lockwood. 12s. 6d.

— The Deep-Level Mines of the Rand and their Future Development. Roy. 8vo. Pp. 170. 1902. Crosby Lockwood. 25s.

Dickson, A. A. C. The Mica Miner's and Prospector's Guide. Cr. 8vo. Pp. 58. 1919. Spon. 4s. 6d.

Griffiths, H. D. Bucket Dredging for Tin in the F.M.S. Super Roy. 8vo. Pp. 35. 1917. Technical Bookshop. 5s.

Hatch, F. H., and Chalmers, J. A. Gold Mines of the Rand. Super Royal 8vo. Pp. 324. 1895. Macmillan. 17s.

Hodgson, J. E. The Dredging of Gold Placers. Demy 8vo. Pp. 65. 1911. Pitman. 5s.

Horwood, C. B. The Gold Deposits of the Rand. Med. 8vo. Pp. 400. 1917. Griffin. 18s. *

Johnson, J. C. F. Getting Gold: A Gold-Mining Handbook for Practical Men. 6th edn. Cr. 8vo. Pp. 211. 1920. Griffin. 6s.

Kassner, T. Gold Seeking in South Africa: A Hand-book of Hints for intending Explorers, Prospectors, and Settlers; with a chapter on the Agricultural Aspects of South Africa. Cr. 8vo. Pp. 144. 1902. Griffin. 4s. 6d.

Kirkpatrick, T. S. G. The Hydraulic Gold Miner's Manual. 2nd edn. Cr. 8vo. Pp. 46. 1897. Spon. 4s.

Tinney, W. H. Gold Mining Machinery: its Selection, Arrangement, and Installation. Med. 8vo. Pp. 320. * 1906. Crosby Lockwood. 12s. 6d.

- Truscott, S. J.** Witwatersrand Goldfields, Banket, and Mining Practice. 3rd edn. Super royal 8vo. Pp. 546. 1907. Macmillan. 40s.
- Wagner, P. A.** The Diamond Fields of Southern Africa. Cr. 4to. Pp. 347. 1914. Technical Bookshop. 32s. 6d.
- Young, R. B.** The Banket. A Study of the Auriferous Conglomerates of the Witwatersrand and the Associated Rocks. Med. 8vo. Pp. 135. 1917. Gurney and Jackson. 8s. 6d.
- vi. ORE DRESSING.**
- Eissler, M.** Cyanide Process for the Extraction of Gold and its Practical Application on the Witwatersrand Goldfields and elsewhere. 3rd edn. 8vo. Pp. 202. 1902. Crosby Lockwood. 8s. 6d.
- Hoover, T. J.** Concentrating Ores by Flotation. 3rd edn. Med. 8vo. Pp. 320. 1916. Technical Bookshop. 12s. 6d.
- Julian, H. F., Smart, E., and Allen, A. W.** Cyaniding Gold and Silver Ores. A Practical Treatise on the Cyanide Process: its Application, Methods of Working, Design and Construction of Plant, and Costs. 2nd edn. Med. 8vo. Pp. 460. 1913. Griffin. 25s.
- Levy, D. M.** Modern Copper Smelting. Med. 8vo. Pp. 271. 1912. Griffin. 12s. 6d.
- Lock, G. W.** Gold Milling. Principles and Practice. 8vo. Pp. 823. 1901. Spon. 21s.
- Louis, H.** A Handbook of Gold-Milling. 3rd edn. Cr. 8vo. Pp. 616. 1902. Macmillan. 12s. 6d.
- The Dressing of Minerals. Super royal 8vo. Pp. 554. 1909. Arnold. 30s.

GEOGRAPHY.

i. TEACHING OF GEOGRAPHY.

Archer, R. L., Lewis, W. J., and Chapman, A. E. *The Teaching of Geography in Elementary Schools.* 3rd edn. Cr. 8vo. Pp. 259. 1918. Black. 5s.

Mill, H. R. *A Guide to Geographical Books and Appliances.* Revised by A. J. Herbertson, J. F. Unstead, and N. E. MacMunn. 2nd edn. Demy 8vo. Pp. 208. 1910. Geo. Philip. 6s.

Wallis, B. C. *The Teaching of Geography.* Cr. 8vo. Pp. 232. 1916. Cambridge University Press. 5s.

ii. HISTORICAL GEOGRAPHY.

Beazley, C. R. *The Dawn of Modern Geography. A History of Exploration and Geographical Science from the Conversion of the Roman Empire to the early years of the Fifteenth century.* 3 Vols. 8vo. Vol. 1. To A.D. 900. (Out of print). Vol. 2. A.D. 900—1260. Pp. 652. 1904. 20s. Vol. 3. A.D. 1260—1420. Pp. 638. 1906. 25s. Vols. 2 and 3. 40s. Oxford: Clarendon Press.

Crockett, T., and Wallis, B. C. *North America during the Eighteenth Century. A Geographical History.* Cr. 8vo. Pp. 124. 1915. Cambridge University Press. 4s. 6d.

Fairgrieve, J. *Geography and World Power.* 2nd edn. Cr. 8vo. Pp. 381. 1920. University of London Press. 5s.

Fordham, Sir H. G. *Studies in Carto-Bibliography.* 8vo. Pp. 190. 1914. Oxford: Clarendon Press. 6s.

Freeman, E. A. *The Historical Geography of Europe.* 8vo. Pp. 664. 13s. 6d. Atlas to the same. 3rd edn. 8vo. 1920. 7s. 6d. Longmans.

George, H. B. *The Relations of Geography and History.* 4th edn. Cr. 8vo. Pp. 310. 1910. Oxford: Clarendon Press. 4s. 6d.

Heawood, E. *A History of Geographical Discovery in the Seventeenth and Eighteenth Centuries.* Cr. 8vo. Pp. 487. 1912. Cambridge University Press. 15s.

Keltie, Sir J. S., and Howarth, O. J. R. *History and Geography.* Cr. 8vo. Pp. 163. 1913. Watts. 3s. 6d.

Newbigin, M. I. *Modern Geography.* Fcap. 8vo. Pp. 256. 1911. Williams and Norgate. 2s. 6d.

Parkinson, T. W. F. *Lessons in Modern Geography.* Cr. 8vo. Pp. 148. 1919. Oxford University Press. 3s.

Tozer, H. F. *A History of Ancient Geography.* Cr. 8vo. Pp. 387. 1897. Cambridge University Press. 10s. 6d.

iii. PHYSIOGRAPHY.

Huxley, T. H. *Physiography: an Introduction to the Study of Nature.* A new edition Revised and partly re-written by Sir R. A. Gregory. Gl. 8vo. Pp. 436. 1919. Macmillan. 7s.

Mill, H. R. *The Realm of Nature. An Outline of Physiography.* 2nd edn. Cr. 8vo. Pp. 416. 1918. Murray. 6s.

Geography.

Salisbury, R. D. *Physiography*. Demy 8vo. Pp. 770. Murray. 25s.

—*Physiography. Shorter Course*. Large Cr. 8vo. Pp. 529. 1909. Murray. 12s.

Simmons, A. T. *Physiography for Advanced Students*. Gl. 8vo. Pp. 498. 1901. Macmillan. 5s.

—*Physiography for Beginners*. New imp. Gl. 8vo. Pp. 364. 1905. Macmillan. 3s.

Thornton, J. *Elementary Practical Physiography*. New edn. 2 Parts. Cr. 8vo. Part 1. Pp. 370. 1906. Part 2. Pp. 220. 1904. Longmans. 4s. each part.

—*Elementary Physiography: an Introduction to the Study of Nature*. Cr. 8vo. Pp. 442. 1917. Longmans. 4s.

—*Advanced Physiography*. Cr. 8vo. Pp. 412. 1911. Longmans. 6s.

iv. PHYSICAL GEOGRAPHY.

Barnard, H. C. *Outlines of Physical Geography*. 2nd edn. Cr. 8vo. Pp. 156. 1917. Black. 2s. 6d.

Gelkie, Sir A. *Elementary Lessons in Physical Geography*. Fcap. 8vo. Pp. 410. 1919. Macmillan. 5s.

Gregory, J. W. *Geography: Structural, Physical, Comparative*. Large Cr. 8vo. Pp. 305. N.D. Blackie. 7s. 6d.

Hughes, W., and Gregory, Sir R. A. *Class Book of Physical and Astronomical Geography*. Cr. 8vo. Pp. 336. Geo. Philip. 3s. 6d.

Hunter, W. I. *Rivers and Estuaries, or Streams and Tides*. 8vo. Pp. 76. 1913. Longmans. 2s. 6d.

Lake, P. *Physical Geography*. New edn. Demy 8vo. Pp. 344. 1919. Cambridge University Press. 13s.

Longmans' Geographical Series. Book 5. *A Primary Physical Geography*. New imp. Cr. 8vo. Pp. 229. 1917. Longmans. 3s. 6d.

Newbigin, M. I. *An Introduction to Physical Geography*. Cr. 8vo. Pp. 336. Dent. 4s. 6d.

Poynting, J. H. *The Earth: its Shape, Size, Weight, and Spin*. Roy. 16mo. Pp. 141. 1913. Cambridge University Press. 2s. 6d.

Russell, I. C. *River Development. As Illustrated by the Rivers of North America*. Large Cr. 8vo. Pp. 327. Murray. 7s. 6d.

Simmons, A. T., and Stenhouse, E. *A Class Book of Physical Geography*. Cr. 8vo. Pp. 444. 1919. Macmillan. 5s. 6d.

Smith, B. *Physical Geography*. 2nd edn. Demy 8vo. Pp. 198. 1917. Black. 4s. 6d.

Wood, C. A. *A Physical and Economic Geography of the World*. 3rd edn. Cr. 8vo. Pp. 750. N.D. Normal Press. 6s. 6d.

v. MAP WORK.

Bryant, V. S., and Hughes, T. H. *Map Work*. Med. 8vo. Pp. 174. 1918. Oxford: Clarendon Press. 5s.

Hinks, A. R. *Maps and Survey*. Demy 8vo. Pp. 222. 1913. Cambridge University Press. 8s. 6d.

—*Map Projections*. Demy 8vo. Pp. 138. 1912. Cambridge University Press. 7s.

Newbigin, M. I. *Ordnance Survey Maps: their Meaning and Use with Descriptions of Typical 1-inch Sheets*. 2nd edn. Fcap. 8vo. Pp. 128. 1920. Johnston. 2s.

vi. COMMERCIAL AND ECONOMIC.

Bridge, R. S. *Geography of Commerce and Industry*. Cr. 8vo. Pp. 272. 1920. Hodder and Stoughton. 4s. 6d.

Brown, R. N. R. *The Principles of Economic Geography*. 8vo. Pp. 223. 1920. Pitman. 10s. 6d.

Chisholm, G. G. *Handbook of Commercial Geography*. 8th edn. 8vo. Pp. 782. 1920. Longmans. 25s.

Geography.

- Chisholm, G. G.** A Smaller Commercial Geography. New imp. Cr. 8vo. Pp. 295. 1920. Longmans. 5s.
- Curr, A. L.** Commercial Geography. An Intermediate Text-book. Cr. 8vo. Pp. 440. 1915. Black. 5s.
- Fairgrieve, J., and Young, E.** The Gateways of Commerce: An Introduction to Economic Geography. Cr. 8vo. Pp. 280. 1921. Philip. 3s. 6d.
- Herbertson, A. J.** Commercial Geography of the World. Cr. 8vo. Pp. 383. N.D. Chambers. 3s. 6d.
- Howarth, O. J. R.** A Commercial Geography of the World. 2nd edn. Cr. 8vo. Pp. 236. 1920. Oxford: Clarendon Press. 4s.
- Lyde, L. W.** A Commercial Geography of the World. 5th edn. Small Cr. 8vo. Pp. 287. 1919. Black. 4s. 6d.
- McFarlane, J.** Economic Geography. Demy 8vo. Pp. 568. N.D. Pitman. 10s. 6d.
- Sargent, A. J.** Seaways of the Empire. Large Cr. 8vo. Pp. 171. 1918. Black. 7s. 6d.
- Thurston, C. B.** An Economic Geography of the British Empire. Cr. 8vo. Pp. 388. 1919. University of London Press. 5s.
- vii. GENERAL: THE WORLD.**
- Fry, G. C.** Text-Book of Geography. 3rd edn. 11th imp. Cr. 8vo. Pp. 490. 1921. University Tutorial Press. 6s. 6d.
- Golding, A. A.** An Introduction to General Geography. Cr. 8vo. Pp. 232. 1915. Cambridge University Press. 5s. 6d.
- Heaton, E. W.** The Senior Scientific Geography. Cr. 8vo. Pp. 861. Herbert Russell. 7s. 6d.
- Herbertson, A. J., and F. D.** The Senior Geography. 5th edn. Cr. 8vo. Pp. 372. 1918. 5s. With Questions by F. M. Kirk and Statistical Appendix by E. G. R. Taylor. Pp. 436. 4s. With Physiographical Introduction, Questions, and Statistical Appendix. Pp. 564. 5s. Oxford: Clarendon Press.
- Herbertson, A. J., and F. D.** The Clarendon Geography. 2 Vols. Cr. 8vo. 1912-13. Vol. 1. Principles, British Isles and Europe. Pp. 380. 4s. Vol. 2. Asia, Africa, Australia and America. Pp. 376. 4s. Oxford: Clarendon Press.
- Hughes, W.** Class Book of Modern Geography. Physical, Political, and Commercial. Cr. 8vo. Pp. 488. 1912. Geo. Philip. 3s. 6d.
- Advanced Class Book of Modern Geography. Cr. 8vo. Pp. 884. 1908. Geo. Philip. 4s. 6d.
- Johnston, K.** Physical, Historical, Political, and Descriptive Geography. 6th edn. Revised by A. H. Keane. Large Post 8vo. Pp. 491. 1908. Stanford. 12s.
- Longmans' Geographical Series.**
- Book 1. First Book of Geography. New imp. Cr. 8vo. Pp. 182. 1918. Longmans. 3s.
- Book 2. The World for Junior Students. New imp. Cr. 8vo. Pp. 510. 1918. Longmans. 6s.
- Book 3. The World for Senior Students. New imp. Cr. 8vo. Pp. 623. 1918. Longmans. 7s. 6d.
- Lyde, L. W.** Short Text-book of Geography. 2nd edn. Small Cr. 8vo. Pp. 416. 1917. Black. 6s.
- Piggott, H., and Finch, R. J.** World Studies: An Introduction to General Geography. Demy 8vo. Pp. 390. Dent. 4s. 6d.
- Simmons, A. T., and Richardson, H.** Introduction to Practical Geography. Gl. 8vo. Pp. 392. 1916. Macmillan. 4s.
- Unstead, J. F., and Taylor, E. G. R.** General and Regional Geography for Students. 6th edn. Large 8vo. Pp. 520. 1920. Geo. Philip. 7s. 6d.
- Wallis, B. C.** Essentials of Practical Geography. Gl. 8vo. Pp. 232. 1918. Macmillan. 4s. 6d.
- A Geography of the World. Gl. 8vo. Pp. 388. 1919. Macmillan. 4s. 6d.
- Practical Exercises in Geography. A Two Years' Course. New imp. Cr. 8vo. Pp. 208. 1920. 8s. Key. 4s. 6d. Macmillan.

Geography.

Wilmore, A. *The Groundwork of Modern Geography. An Introduction to the Science of Modern Geography.* Cr. 8vo. Pp. 412. 1920. Bell. 6s.

viii. GENERAL: BRITISH EMPIRE.

Bunting, W. L., and Collen, H. L. *A Geography of the British Empire.* 2nd edn. Cr. 4to. Pp. 168. 1916. Cambridge University Press. 6s.

Herbertson, A. J., and Howarth, O. J. R. (edited by). *The Oxford Survey of the British Empire. Being a description of the Empire and its constituent territories in their geographical, economic, administrative and social aspects at the present time.* 6 Vols. 8vo. 1914. Vol. 1. *British Isles, &c.* Pp. 608. Vol. 2. *Asia.* Pp. 515. Vol. 3. *Africa.* Pp. 564. Vol. 4. *America.* Pp. 521. Vol. 5. *Australasia.* Pp. 596. Vol. 6. *General Survey.* Pp. 394. Oxford: Clarendon Press. 15s. each; the 6 Vols. 70s.

— and **Thompson, R. L.** *Geography of the British Empire.* 3rd edn. Cr. 8vo. Pp. 256. 1918. Oxford: Clarendon Press. 3s.

Longmans' Geographical Series. Book 4. *The British Empire.* New imp. Cr. 8vo. Pp. 349. 1918. Longmans. 5s.

Newbigin, M. I. *The British Empire Beyond the Seas.* 3rd edn. Cr. 8vo. Pp. 250. 1917. Bell. 4s. 6d.

ix. DESCRIPTIVE REGIONAL.

Brooks, L. *New Regional Geographies.* Cr. 8vo. Book 1. *The Americas.* Pp. 256. 1919. 4s. Book 2. *Asia and Australasia.* Pp. 300. 1919. 4s. Book 3. *Africa and Europe.* Pp. 480. 1919. 6s. 6d. Part 1. *Africa.* Pp. 140. 1920. 2s. 6d. Part 2. *The British Isles.* Pp. 140. 1920. 2s. 6d. Part 3. *Europe, including the British Isles.* Pp. 340. 1920. 5s. Book 4. *The World.* In preparation. University of London Press.

Hogarth, D. G. *Nearer East (Balkans, Asia Minor, N.E. Africa, Egypt, Arabia, Persia, etc.). (Regions of the World).* 8vo. Pp. 312. 1905. Oxford: Clarendon Press. 10s. 6d.

Holdich, Sir T. *India. (Regions of the World).* 8vo. Pp. 388. 1904. Oxford: Clarendon Press. 10s. 6d.

Little, A. *The Far East (China, Japan, Turkestan, Eastern Asia, etc.). (Regions of the World).* 8vo. Pp. 342. 1905. Oxford: Clarendon Press. 10s. 6d.

Lyde, L. W. *The Continent of Europe.* 8vo. Pp. 462. 1917. Macmillan. 8s. 6d.

Mackinder, H. J. *Britain and the British Seas. (Regions of the World).* 2nd edn. 8vo. Pp. 388. 1907. Oxford: Clarendon Press. 10s. 6d.

Martin, J. *A Geography of Asia.* Cr. 8vo. Pp. 306. 1919. Macmillan. 5s.

Partsch, J. *Central Europe (Alpine Countries, Germany, Austria, Netherlands, etc.).* Translated from the German. (Regions of the World). 8vo. Pp. 372. 1904. Oxford: Clarendon Press. 10s. 6d.

Russell, I. *North America (Canada, United States, Mexico, etc.). (Regions of the World).* 8vo. Pp. 444. 1904. Oxford: Clarendon Press. 10s. 6d.

Stanford's Compendium of Geography and Travel. 13 Vols. Large Cr. 8vo. Europe. Vol. 1. *The Countries of the Mainland (excluding the North-West).* By B. C. Wallis. New edn. in preparation. Europe. Vol. 2. *British Isles, Scandinavia, Denmark, and the Low Countries.* By B. C. Wallis. New edn. in preparation. North America. Vol. 1. *Canada and Newfoundland.* By H. M. Ami. Pp. 1,069. 1915. North America. Vol. 2. *The United States.* New edn. in preparation. Australasia. Vol. 1. *Australia and New Zealand.* By J. W. Gregory. 2nd edn. Pp. 657. 1907.

Geography.

Australasia. Vol. 2. Malaysia and the Pacific Archipelagoes. By F. H. H. Guillemand. 2nd edn. revised by A. H. Keane. Pp. 590. 1908. Africa. Vol. 1. North Africa. By A. H. Keane. 2nd edn. Pp. 640. 1907. Africa. Vol. 2. South Africa. By A. H. Keane. 2nd edn. 1908. Asia. Vol. 1. Northern and Eastern Asia, Caucasia, Russian Turkestan, Siberia, Chinese Empire, Korea and Japan. By A. H. Keane. 2nd edn. Pp. 554. 1906. Asia. Vol. 2. Southern and Western Asia, Afghanistan, India, Indo-China, Malay Peninsula, Turkey in Asia, Arabia and Persia. By A. H. Keane. 2nd edn. Pp. 527. 1909. Central and South America. Vol. 1. South America. By A. H. Keane. 2nd edn. Pp. 638. 1911. Central and South America. Vol. 2. Central America and West Indies. By A. H. Keane. Pp. 500. 1901. Glossary of Geographical and Topographical Terms, and of words of frequent occurrence in the composition of such terms and of place names. By A. Knox. Pp. 432. Stanford. 17s. 6d. each Vol.

Taylor, G. Australia, in its Physio-graphic and Economic Aspects. 3rd edn. Cr. 8vo. Pp. 266. 1920. Oxford: Clarendon Press. 4s.

x. MISCELLANEOUS.

Fawcett, C. B. Frontiers, a Study in Political Geography. Cr. 8vo. Pp. 108. 1918. Oxford: Clarendon Press. 3s. 6d.

—Provinces of England. A Study of some Geographical Aspects of Devolution. Cr. 8vo. Pp. 296. 1919. Williams and Norgate. 6s. 6d.

Fleure, H. J. Human Geography in Western Europe. Cr. 8vo. Pp. 263. 1919. Williams and Norgate. 6s.

Keltie, Sir J. S. Applied Geography. 2nd edn. Cr. 8vo. Pp. 175. 1908. Geo. Philip. 3s. 6d.

Maguire, T. M. Outlines of Military Geography. Cr. 8vo. Pp. 367. 1900. Cambridge University Press. 12s. 6d.

Mill, H. R. New Lands: their Resources and Prospective Advantages. Cr. 8vo. Pp. 292. 1900. Griffin. 5s.

Vinall, J. W. T., and Snaith, G. L. Open-Air Geography and Topographical Modelling. 8vo. Pp. 224. 1920. Blackie. 5s.

NAVIGATION AND SEAMANSHIP.

1. NAVIGATION AND NAUTICAL ASTRONOMY.

- Anon.** Ru-Ro, the Rule of the Road at Sea. Fully illustrated by Diagrams in colour. Demy 8vo. Pp. 32. Jas. Munro. 2s. 6d.
- Arnold, H. T.** Steamship Navigation. Cr. 8vo. Pp. 104. N.D. Blackie. 2s. 6d.
- Card, S. F.** Navigation Notes and Examples. 3rd edn. Demy 8vo. Pp. 262. 1920. Arnold. 12s. 6d.
- Cross, F.** New Navigation. 3rd edn. Demy 8vo. Pp. 39. 1919. James Brown. 2s. 6d.
- Dunraven, Earl of.** Self Instruction in the Practice and Theory of Navigation. New edn. 3 Vols. 8vo. 1908. Vols. 1 and 2. Pp. 300., 348. 17s. Vol. 3. Pp. 350. 8s. 6d. Macmillan.
- Gill, J.** Text-Book on Navigation and Nautical Astronomy. Revised and Enlarged by W. V. Merrifield. New edn. Med. 8vo. Pp. 446. 1918. Longmans. 21s.
- Grant, H. C. J.** Pocket Book of Practical Navigation. Revised by E. R. G. R. Evans and B. C. Porter. 18mo. Pp. 207. 1920. Gieves. 10s. 6d.
- Groves-Showell, P.** Definitions in Navigation and Nautical Astronomy. Cr. 8vo. Pp. 115. 1908. Griffin. 3s.
- Hall, W.** Modern Navigation (Navigation and Nautical Astronomy). 2nd edn. 6th imp. Cr. 8vo. Pp. 337. 1919. University Tutorial Press. 9s. 6d.
- Hughes, A. J.** The Book of the Sextant. Demy 8vo. Pp. 63. 1915. James Brown. 3s. 6d.
- Jutsum, J. N.** Brown's Rule of the Road Manual. New edn. Cr. 8vo. Pp. 97. 1921. J. Brown. 2s. 6d.
- Lecky, S. T. S.** The Danger Angle and Off-Shore Distance. 12th edn. Sq. 8vo. Pp. 138. 1919. Geo. Philip. 6s.
- Wrinkles in Practical Navigation. 12th edn. Roy. 8vo. Pp. 814. 1920. Geo. Philip. 30s.
- MacHattie, A.** The Navigator's Practical Star Book. For Learners and Experienced Navigators. Containing 40 charts. Roy. 4to Oblong. Jas. Munro. 7s. 6d.
- Millar, W. J.** Latitude and Longitude: How to Find them. 3rd edn. Cr. 8vo. Pp. 60. 1914. Griffin. 2s.
- Miremont, Comte de.** Practical Methods in Modern Navigation. Demy 8vo. Pp. 107. 1905. Geo. Philip. 5s.
- Owens, E. W.** How to Learn on Shore the Rule of the Road at Sea. Demy 8vo. Pp. 40. 1906. Geo. Philip. 5s.
- Rugg, W. G.** Stellar Indicator. Showing meridian passage, hour angle, and meridian altitude of the principal stars in both hemispheres at a glance. Jas. Munro. 2s. 6d.
- A Treatise on the Projection of the Sphere, showing how to construct and compute all the Astronomical problems, etc. Cr. 4to. Jas. Munro. 3s. 6d.
- Rule of the Road, Collision Indicator. Post 4to. Jas. Munro. 2s. 6d.
- Smith, D. W.** The Law Relating to the Rule of the Road at Sea. 2nd edn. Demy 8vo. Pp. 333. 1910. James Brown. 10s. 6d.

Navigation and Seamanship.

Stebbing, F. C. *Navigation and Nautical Astronomy.* 2nd edn. 8vo. Pp. 352. 1903. Macmillan. 8s. 6d.

Swainston, C. M. *New Guide Book.* 16th edn. Demy 8vo. Pp. 594. 1920. T. Reed & Co. 12s. 6d.

Whall, W. B. *Handy Book of the Stars used in Navigation.* 8th edn. Oblong 4to. 1920. Geo. Philip. 8s. 6d.

Williamson, A. P. W. *Text-Book of Navigation and Nautical Astronomy.* New edn. 8vo. Pp. 413. 1920. John Hogg. 10s. 6d.

Wilson-Barker, Sir D., and Allingham, W. *Navigation: Practical and Theoretical.* 3rd edn. Cr. 8vo. Pp. 168. 1913. Griffin. 3s. 6d.

ii. EXAMINATION GUIDES ON NAVIGATION AND SEAMANSHIP.

Cogle and Tait's Extra Master's Guide. Explanations of all questions in Navigation, Nautical Astronomy, and Compass Syllabus. 3rd edn. Cr. 4to. Pp. 238. 1904. James Brown. 10s. 6d.

Don, J., and Caird, W. J. *Chambers's Navigation: A Guide to the Examinations of Second Hands, Skippers, and Extra Skippers of Fishing Vessels and Trawlers.* Cr. 8vo. Pp. 312. Chambers. 3s. 6d.

Hansen, L. F. *Trigonometry and Navigation. A Complete Guide to the B.O.T. Examination for Extra Masters only.* Roy. 8vo. 1920. J. Brown. 15s.

Morris, C. *Extra Master's, Master's, and Mate's Handbook. A Guide to the Board of Trade Examinations.* 3rd edn. Demy 8vo. Pp. 564. 1913. James Brown. 10s. 6d.

Nicholls, A. E., *Concise Guide for Board of Trade Examinations.* Revised by Capt. Maxwell. 18th edn. Demy 8vo. Pp. 732. 1920. James Brown. 15s. 6d.

Tait, Capt. *Memory Work, required for the Board of Trade Examinations of Second Mates, Mates, and Masters.* 3rd edn. Cr. 8vo. Pp. 94. Jas. Munro. 2s.

Tait, J. *Tait's Trawler's and Fisherman's Guide.* 7th edn. Cr. 8vo. Pp. 216. 1919. James Brown. 3s. 6d.

Tait's Guide to the Board of Trade Examinations for Second Mates, Mates, and Masters. Jas. Munro. 8s.

Williamson, A. P. W. *Home Trade. New Guide to home trade Masters' and Mates' Examinations.* 2nd edn. Cr. 8vo. Pp. 146. Jas. Munro. 2s. 6d.

iii. COMPASS WORK.

Brown, C. H. *Deviation and the Deviascope, including the Practice and Theory of Compass Adjustment.* Demy 8vo. Pp. 133. 1918. James Brown. 5s. 6d.

Martin, W. R. *Lectures on Compass Adjustment.* Demy 8vo. Pp. 98. 1906. Geo. Philip. 5s.

Merrifield, J. *Magnetism and Deviation of the Compass.* 18mo. Pp. 168. 1919. Longmans. 3s. 6d.

Rugg, W. G. *Pocket Deviascope. For Illustrating Compass adjustment.* 16mo. Jas. Munro. 1s. 6d.

Tait, Capt. *New Compass Syllabus, with over 100 Questions and Answers, with diagrams.* 2nd edn. Cr. 8vo. Pp. 44. Jas. Munro. 2s.

Tait, J. *Home Trade Guide. Full explanations of True and Magnetic Chart, Compass Deviations, Latitude by Meridian Altitude, Signals, Rule of the Road, etc.* 10th edn. Cr. 8vo. Pp. 321. 1919. James Brown. 5s.

iv. NAUTICAL TABLES AND TERMS.

Ansted, A. *Dictionary of Sea Terms.* Cr. 8vo. Pp. 320. 1919. James Brown. 5s.

Navigation and Seamanship.

- Brent, C., Walter, A. F., and Williams, G.** Ex-Meridian Altitude Tables. 9th edn. Roy. 8vo. Pp. 91. 1920. Geo. Philip. 7s. 6d.
- Brown, J. R.** (edited by). *Brown's Nautical Almanac; Harbour and Dock Guide and Daily Tide Tables for 1921.* 8vo. Pp. 681. Dec. 1920. J. Brown. 3s. 6d.
- Delbos, L.** *Nautical Terms in English and French and French and English.* New edn. Cr. 8vo. Pp. 461. 1914. Williams and Norgate. 5s.
- Jefferson's Nautical Almanac and Tide Tables, Harbour and Light-house Guide.** Published annually in September. Cr. 8vo. Jas. Munro. 2s. 6d.
- Norie, J. W.** *A Complete Set of Nautical Tables, with Explanations of their Use.* Cr. 4to. Pp. 738. 1920. Imray, Laurie. 21s.
- Pearson's Nautical Almanac and Tide Tables for 1921.** 8vo. Pp. 440. Nov., 1920. Imray, Laurie. 3s. 6d.
- v. SEAMANSHIP.**
- Ginsburg, B. W.** *The Legal Duties of Shipmasters.* 3rd edn. Cr. 8vo. Pp. 283. 1911. Griffin. 5s.
- MacNab, J.** *Catechism of the Laws of Storms, for the Use of Sea Officers.* 6th edn. Cr. 8vo. Pp. 73. 1913. Geo. Philip. 4s. 6d.
- Nicholls, Capt.** *Seamanship.* 10th edn. Demy 8vo. Pp. 472. 1919. James Brown. 8s. 6d.
- Owen, H.** *Ship Economics, or Practical Aids for Shipmasters.* 2nd edn. Demy 8vo. Pp. 137. 1918. Geo. Philip. 5s. 6d.
- Swainston, C. M.** *Seamanship, Meteorology, and Shipbuilding.* 22nd edn. Cr. 8vo. 1918. T. Reed & Co. 6s.
- Tait, J.** *Seamanship.* 12th edn. Cr. 8vo. Pp. 164. 1920. James Brown. 2s.
- New Seamanship.* 10th edn. Cr. 8vo. Pp. 443. 1920. James Brown. 7s. 6d.
- Todd, J., and Whall, W. B.** *Practical Seamanship. For use in the Merchant Service.* 7th edn. Roy. 8vo. Pp. 442. 1919. Geo. Philip. 30s.
- Wilkes, W. H.** *Notes on the Practical Duties of Shipmasters.* Cr. 8vo. Pp. 127. 1911. Griffin. 3s.
- Williamson, A. P. W.** *Ship's Business and Practical Items in Modern Seamanship.* 2nd edn. Cr. 8vo. Pp. 45. Jas. Munro. 1s. 6d.
- Wilson-Barker, Sir D.** *A Manual of Elementary Seamanship.* 8th edn. Cr. 8vo. Pp. 287. 1919. Griffin. 7s. 6d.
- Things A Sailor Needs to Know.* Med. 8vo. Pp. 351. 1919. Griffin. 21s.
- vi. MARINE SIGNALLING.**
- Bernard, D. H.** *Signalling Made Easy.* New edn. Cr. 8vo. Pp. 85. 1918. James Brown. 2s. 6d.
- Brown's Signalling.** 22nd edn. Cr. 8vo. Pp. 134. 1920. James Brown. 4s. 6d.
- Rugg, W. G.** *Signal Manual: for the Use of the Mercantile Marine.* 2nd edn. Demy 8vo. Jas. Munro. 1s.
- vii. CHARTS, TIDES, OCEANOGRAPHY.**
- Abbott, T. K.** *Elementary Theory of the Tides: the Fundamental Theorems Demonstrated without Mathematics and the Influence of the Length of the Day Discussed.* 2nd edn. Cr. 8vo. Pp. 40. 1901. Longmans. 2s.
- Carpenter, A., and Wilson-Barker, Sir D.** *Nature Notes for Ocean Voyagers: Observations of Fishes, Birds, and Beasts; with Popular Chapters on Weather, Waves, and Legendary Lore.* Med. 8vo. Pp. 197. 1915. Griffin. 6s.
- Fowler, G. H.** (edited by). *Science of the Sea. An Elementary Handbook of Practical Oceanography for Travellers, Sailors and Yachtsmen.* Large Cr. 8vo. Pp. 452. 1912. Murray. 10s. 6d.

Navigation and Seamanship.

- Jenkins, J. T.** *A Textbook of Oceanography.* Demy 8vo. Pp. 216. 1921. Constable. 15s.
- Maxwell, F. W.** *Book on Chartwork and Plans.* 4th edn. Demy 8vo. Pp. 67. 1918. James Brown. 2s. 6d.
- Messum, S.** *Hydrographic Surveying. For the use of Beginners and Port and Harbour Masters.* Cr. 8vo. Pp. 519. 1910. Griffin. 15s.
- Murray, Sir J.** *The Ocean.* Fcap. 8vo. Pp. 256. 1919. Williams and Norgate. 2s. 6d.
- and Hjort, J.** *The Depths of the Ocean. A General Account of the Modern Science of Oceanography.* Sup. Roy. 8vo. Pp. 842. 1912. Macmillan. 28s.
- Robinson, J. L.** *Elements of Marine Surveying, with Numerous Exercises.* 3rd edn. Cr. 8vo. Pp. 274. 1904. Macmillan. 7s. 6d.
- Struben, A. M. A.** *Tidal Power: Tides and their Measurement; the Estimation of Potential Tidal Power; Comparisons between Systems of Development; the Financial aspect of the Problem, etc.* Fcap. 8vo. Pp. 127. 1921. Pitman. 2s. 6d.
- Whall, W. B.** *Handy Book of the Tides.* 10th edn. Demy 4to. Pp. 37. Geo. Philip. 5s.
- Wharton, Sir W. J. L.** *Hydrographical Surveying. A description of the means and methods employed in constructing Marine Charts.* 3rd edn. revised and brought up to date by Sir M. Field. Demy 8vo. Pp. 582. 1920. Murray. 30s.

BIOLOGY.

i. GENERAL.

Bidgood, J. A Course of Practical Elementary Biology. Cr. 8vo. Pp. 362. 1914. Longmans. 5s. 6d.

Campbell, H. J. Text Book of Elementary Biology. 3rd edn. Cr. 8vo. Pp. 306. 1905. Allen and Unwin. 6s.

Gibson, H. A Primer of Biology. Fcap. 8vo. Pp. 120. 1908. Dent. 2s.

Henderson, J. F., and W. D. A Dictionary of Scientific Terms: Pronunciation, Derivation, and Definition of Terms in Biology, Botany, Zoology, Anatomy, Cytology, Embryology, Physiology. Demy 8vo. Pp. 362. 1920. Oliver and Boyd. 18s.

Huxley, T. H. Discourses, Biological and Geological. New imp. Gl. 8vo. Pp. 388. 1908. Macmillan. 6s.

—**and Martin, H. N.** A Course of Practical Instruction in Elementary Biology. 3rd edn. Revised and extended by G. B. Howes and D. H. Scott. Cr. 8vo. Pp. 528. 1907. Macmillan. 12s. 6d.

Kirkaldy, J. W., and Drummond, I. M. An Introduction to the Study of Biology. Unicellular Organisms; Simple Multicellular Organisms; Higher Plants and Animals. Cr. 8vo. Pp. 266. 1909. Oxford: Clarendon Press. 6s. 6d.

Lloyd, F. E., and Bigelow, M. A. The Teaching of Biology in the Secondary School. New edn. Cr. 8vo. Pp. 500. 1919. Longmans. 8s.

Lloyd, R. E. An Introduction to Biology: for Students in India. 8vo. Pp. 316. 1910. Longmans. 9s.

MacFadyen, A. The Cell as the Unit of Life: An Introduction to Biology. Edited by R. T. Hewlett. 8vo. Pp. 400. 1908. Churchill. 7s. 6d.

Miall, L. C. History of Biology. Cr. 8vo. Pp. 150. 1911. Watts. 3s. 6d.

Mitchell, P. C., and Mudge, G. P. Outlines of Biology. 4th edn. Cr. 8vo. Pp. 364. 1911. Methuen. 7s. 6d.

Parker, T. J. Lessons in Elementary Biology. 2nd edn. Cr. 8vo. Pp. 528. 1920. Macmillan. 12s. 6d.

Thesing, C. Lectures on Biology. Translated by W. R. Boelter. Med. 8vo. Pp. 342. 1911. Bale and Danielsson. 10s. 6d.

Thomson, J. A. The Science of Life. An Outline of the History of Biology and its Recent Advances. Cr. 8vo. Pp. 246. n.d. Blackie. 3s.

—The Biology of the Seasons. 4th edn. Med. 8vo. Pp. 393. 1915. Melrose. 15s.

Thornton, J. Elementary Biology; Descriptive and Experimental. Revised edn. Cr. 8vo. Pp. 288. 1907. Longmans. 4s. 6d.

ii. NATURE STUDY.

Claxton, W. J. Methodical Nature Study. Demy 8vo. Pp. 190. 1911. Blackie. 7s. 6d.

Furneaux, W. S. The Outdoor World; or the Young Collector's Handbook. Cr. 8vo. Pp. 439. 1912. Longmans. 6s. 6d.

—A Nature Study Guide. Cr. 8vo. Pp. 308. 1918. Longmans. 6s. 6d.

—Life in Ponds and Streams. Cr. 8vo. Pp. 426. 1919. Longmans. 6s. 6d.

Rennie, J. The Aims and Methods of Nature Study. A Guide for Teachers. 3rd imp. Cr. 8vo. Pp. 368. 1917. University Tutorial Press. 5s.

Thomson, J. A. The Wonder of Life. 4th imp. Demy 8vo. Pp. 680. 1920. Melrose. 15s.

iii. NATURAL HISTORY.

Abbey, G. The Balance of Nature and Modern Conditions of Cultivation: A Practical Manual of Animal Foes and Friends. Large 8vo. Pp. 300. 1909. Routledge. 10s. 6d.

Darwin, C. Journal of a Naturalist during a Voyage Round the World in H.M.S. "Beagle." 5th imp. Cr. 8vo. Pp. 521. 1912. Murray. 7s. 6d.

Dépéret, C. Transformations of the Animal World. Cr. 8vo. Pp. 376. 1909. Kegan Paul. 7s. 6d.

Gamble, F. W. The Animal World. Fcap. 8vo. Pp. 265. 1911. Williams and Norgate. 2s. 6d.

Harmer, Sir S. F., and Shipley, Sir A. E. (edited by). The Cambridge Natural History. By Various Writers. 10 Vols. Med. 8vo. Vol. 1. Pp. 694. 1909. Vol. 2. Pp. 572. 1910. Vol. 3. Pp. 550. 1913. Vol. 4. Pp. 566. 1920. Vol. 5. Pp. 596. 1910. Vol. 6. Pp. 638. 1918. Vol. 7. Pp. 788. 1910. Vol. 8. Pp. 668. 1920. Vol. 9. Pp. 652. 1909. Vol. 10. New imp. in the Press. Macmillan. 21s. each Vol.

Huxley, J. S. The Individual in the Animal Kingdom. Roy. 16mo. Pp. 167. 1912. Cambridge University Press. 2s. 6d.

Lankester, Sir E. R. Science from an Easy Chair. First Series. 8th edn. Cr. 8vo. Pp. 439. Methuen. 7s. 6d.

—Science from an Easy Chair. Second Series. 2nd edn. Cr. 8vo. Pp. 426. Methuen. 7s. 6d.

—Diversions of a Naturalist. 2nd edn. Cr. 8vo. Pp. 440. Methuen. 7s. 6d.

Lankester, Sir E. R. Secrets of Earth and Sea. Cr. 8vo. Pp. 262. 1920. Methuen. 8s. 6d.

Latter, O. H. The Natural History of Some Common Animals. Cr. 8vo. Pp. 349. 1913. Cambridge University Press. 6s.

Lloyd, R. E. The Growth of Groups in the Animal Kingdom. 8vo. Pp. 194. 1912. Longmans. 6s.

Lydekker, R. The Royal Natural History. 6 Vols. New imp. in preparation. Warne.

—Wild Life of the World. A Descriptive Survey of the Geographical Distribution of Animals. 3 Vols. Small Demy 4to. Pp. 486., 452., 460. Warne. 84s.

—Animal Portraits etc. Imp. 4to. Pp. 105 and 50 Plates. Warne. 75s.

Protheroe, E. Natural History of the World. 8vo. Pp. 584. Routledge. 10s. 6d.

Scharff, R. F. The History of the European Fauna. Cr. 8vo. Scott Pub. Co. 7s. 6d.

Sherborn, C. D. (compiled by). Index Animalium. Part 1 (1758-1800). Roy. 8vo. Pp. 1,264. 1902. Cambridge University Press. 25s.

Smith, G. W. A Naturalist in Tasmania. 8vo. Pp. 152. 1909. Oxford: Clarendon Press. 7s. 6d.

Smith, G. Primitive Animals. Roy. 16mo. Pp. 166. 1911. Cambridge University Press. 2s. 6d.

Ward, F. Animal Life under Water. Large Cr. 8vo. Pp. 188. 1919. Cassell. 9s.

Westell, W. P. The Young Naturalist. A Guide to British Animal Life. Cr. 8vo. Pp. 492. 1919. Methuen. 7s. 6d.

iv. ZOOLOGY AND MORPHOLOGY.

Beddard, F. E. Elementary Practical Zoology. Cr. 8vo. Pp. 362. 1915. Longmans. 4s. 6d.

- Borradaile, L. A.** *Manual of Elementary Zoology.* 3rd edn. Cr. 8vo. Pp. 630. 1920. Frowde and Hodder. 18s.
- Catechism Series. Zoology.** By R. A. Staig. 2nd edn. 3 Parts. Cr. 8vo. 1s. 9d. each, also in one volume. Pp. 291. 1921. Livingstone. 5s. 6d.
- Dakin, W. J.** *The Elements of Animal Biology.* Cr. 8vo. Pp. 320. 1918. Macmillan. 6s.
- Gardiner, J. S., and Borradaile, L. A.** *The Cambridge Notebook for Practical Biology (Zoology).* 6th edn. 8vo. Pp. 84. 1919. Frowde and Hodder. 5s.
- Howes, G. B.** *An Atlas of Practical Elementary Zootomy.* Preface by T. H. Huxley. Med. 4to. Pp. 36 and 24 Plates. 1902. Macmillan. 12s. 6d.
- Imms, A. D.** *A Laboratory Sketch-Book of Zoology, for Indian Students.* 4to. Pp. 228. 1911. Longmans. 10s. 6d.
- Kerr, G.** *A Primer of Zoology.* Fcap. 8vo. Pp. 99. Dent. 2s.
- Lankester, Sir E. R.** (edited by). *A Treatise on Zoology.* Demy 8vo. Part 1. *Introduction and Protozoa (First Fascicle).* Pp. 296. 1909. Part 1. *Introduction and Protozoa (Second Fascicle).* Pp. 451. 1903. Part 2. *The Porifera and Cœlentera.* Pp. 368. 1900. Part 3. *The Echinodermata.* Pp. 344. 1900. Part 4. *The Platyhelminia, The Mesozoa, and the Nemertini.* Pp. 204. 1901. Part 5. *Mollusca.* Pp. 355. 1906. Part 7. *Crustacea (Third Fascicle).* Pp. 346. 1909. Part 9. *Vertebrata Craniata (First Fascicle).* Pp. 518. 1909. Paper covers, 15s. each. Cloth covers, 20s. each. Black.
- Lulham, R.** *An Introduction to Zoology. (Invertebrates).* Cr. 8vo. Pp. 474. 1913. Macmillan. 8s. 6d.
- MacLeod, J.** *The Quantitative Method in Biology.* 8vo. Pp. 240. 1919. Longmans. 16s.
- Marshall, A. M., and Hurst, C. H.** *A Junior Course of Practical Zoology.* 9th edn. Revised by F. W. Gamble. Cr. 8vo. Pp. 543. 1920. Murray. 12s.
- Masterman, A. T.** *Elementary Text-Book of Zoology.* 2nd edn. Cr. 8vo. Pp. 652. Livingstone. 6s.
- Morgan, C. L.** *Animal Biology: an Elementary Text-Book.* 4th edn. Cr. 8vo. Pp. 426. 1911. Longmans. 9s. 6d.
- O'Donoghue, C. H.** *An Introduction to Zoology for Medical Students.* Demy 8vo. Pp. 511. 1920. Bell. 16s.
- Parker, T. J., and W. N.** *Elementary Course of Practical Zoology.* 5th edn. Cr. 8vo. Pp. 650. 1920. Macmillan. 15s.
- and **Haswell, W. A.** *A Text-Book of Zoology.* 2 Vols. 2nd edn. Med. 8vo. Pp. 880., 748. 1910. Macmillan. 36s.
- and **Haswell, W. A.** *A Manual of Zoology.* Cr. 8vo. Pp. 566. 1918. Macmillan. 10s. 6d.
- Russell, E. S.** *Form and Function. A Contribution to the History of Animal Morphology.* Demy 8vo. Pp. 383. 1916. Murray. 15s.
- Sedgwick, A.** *Student's Text Book of Zoology.* 3 Vols. Demy 8vo. Vol. 1. *Protozoa to Chaetognatha.* Pp. 619. 1898. Vol. 2. *Chordata to Mammalia.* Pp. 705. 1905. Vol. 3. *The Introduction to Arthropoda, the Crustacea, and Xiphosura, by J. J. Lister; the Insecta and Arachnida, by Sir A. E. Shipley.* Pp. 918. 1909. Allen & Unwin. 15s. each.
- (edited by). *Proceedings of the Fourth International Congress of Zoology. (Cambridge, 1898).* Demy 8vo. 1898. Cambridge University Press. 15s.
- Shipley, Sir A. E., and MacBride, E. W.** *Zoology. An Elementary Text-Book.* 4th edn. Demy 8vo. Pp. 772. 1920. Cambridge University Press. 20s.

- Thompson, D'A. W.** *On Growth and Form.* Demy 8vo. Pp. 810. 1917. Cambridge University Press. 24s.
- Thomson, J. A.** *The Study of Animal Life.* 4th edn. Cr. 8vo. Pp. 477. 1917. Murray. 6s.
- *Secrets of Animal Life.* Demy 8vo. Pp. 322. 1919. Melrose. 7s. 6d.
- *Outlines of Zoology.* 7th edn. Cr. 8vo. Pp. 890. 1921. Frowde and Hodder. 18s.
- Wells, H. G., and Davies, A. M.** *Text-Book of Zoology.* Revised by J. T. Cunningham. 6th edn. 10th imp. Cr. 8vo. Pp. 495. 1917. University Tutorial Press. 9s. 6d.
- v. INSECTS: SPIDERS, TICKS.**
- Adler, H.** *Alternating Generations. A Biological Study of Oak Galls and Gall Flies.* Translated and edited by C. R. Straton. Cr. 8vo. Pp. 242. 1894. Oxford: Clarendon Press. 10s. 6d.
- Avebury, Lord.** *On the Senses, Instincts, and Intelligence of Animals, with special Reference to Insects.* 6th edn. Cr. 8vo. Pp. 164. Kegan Paul. 7s. 6d.
- *Ants, Bees, and Wasps: a Record of Observations on the Habits of the Social Hymenoptera.* 17th edn. 3rd imp. Cr. 8vo. Pp. 453. 1915. Kegan Paul. 7s. 6d.
- Balfour-Browne, F.** *Keys to the Orders of Insects.* Demy 8vo. Pp. 66. 1920. Cambridge University Press. 7s. 6d.
- Barrett, C. G.** *The Lepidoptera of the British Islands. A Descriptive account of their Families, Genera, Species, Preparatory States and Localities.* 11 Vols. Demy 8vo. 1893-1907. Vol. 1. Rhopalocera. Vols. 2-11, Heterocera. 12s. each. Large Paper Edition with 504 Coloured Plates. Roy. 8vo. 1893-1907. (Vol. 1. Separately, 63s. £33 15s. Labelling List of Species. 1s. 6d. Lovell Reeve.
- Bastin, H.** *British Insects and How to know them.* Fcap. 8vo. Pp. 142. 1917. Methuen. 2s.
- Bath, W. H.** *Handbook of Ants, Bees, Dragon Flies, Earwigs, Crickets, and Flies.* 5th edn. Cr. 8vo. Pp. 108. 1912. Allen and Unwin. 1s. 6d.
- Buckton, G. B.** *Monograph of the British Cicadæ or Tettigidæ.* With 82 Coloured Plates, illustrating about 250 Species. 2 Vols. Med. 8vo. Pp. 211., 206. 1891. Lovell Reeve. 63s.
- *Monograph of the Membracidæ.* With 2 structural and 60 Plates, illustrating about 400 species. Imp. 8vo. Pp. 296. 1903. Lovell Reeve. Coloured, £5 5s. Uncoloured, £2 15s. 6d.
- Butler, E. A.** *Pond Life: Insects.* 6th edn. Cr. 8vo. Pp. 127. 1909. Allen and Unwin. 1s. 6d.
- Carpenter, G. H.** *Insects: their Structure and Life. A Primer of Entomology.* Cr. 8vo. Pp. 104. Dent. 6s.
- *The Life Story of Insects.* Roy. 16mo. Pp. 134. 1913. Cambridge University Press. 2s. 6d.
- Coleman, W. S.** *British Butterflies.* New edn. Cr. 8vo. Pp. 160. 1910. Routledge. 5s.
- Crabtree, J. H.** *Wonders of Insect Life: Details of the Habits and Structure of Insects. Illustrated by the Camera and the Microscope.* * Cr. 8vo. Pp. 219. 1920. Routledge. 6s.
- Ealand, C. A.** *Insect Life. With 50 Coloured Plates and 24 Photographs.* Demy 8vo. Pp. 352. 1921. Black. 30s.
- Edwards, J.** *The Hemiptera Homoptera of the British Islands. With 2 structural Plates.* Demy 8vo. Pp. 271. 1896. 21s. Large Paper Edition, with 28 Plates, illustrating about 300 Species. Super Roy. 8vo. Pp. 283. 1896. Coloured, 50s; uncoloured, 25s. Lovell Reeve.

- Eltringham, H.** African Mimetic Butterflies, being descriptions and illustrations of the principal known instances of Mimetic Resemblance in the Rhopalocera of the Ethiopian Region, together with an explanation of the Mullerian and Batesian Theories of Mimicry, and some of the account of the evidences on which these theories are based. Roy. 4to. Pp. 136 and Plates. 1910. Oxford: Clarendon Press. 50s.
- Fabre, J. H.** The Mason Wasps. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 324. N.D. Hodder and Stoughton. 8s. 6d.
- The Mason Bees. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 324. N.D. Hodder and Stoughton. 8s. 6d.
- The Life of the Caterpillar. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 390. 1917. Hodder and Stoughton. 8s. 6d.
- Bramble Bees and Others. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 484. 1917. Hodder and Stoughton. 8s. 6d.
- The Hunting Wasps. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 435. 1919. Hodder and Stoughton. 8s. 6d.
- The Life of the Fly, with which are interspersed some Chapters of Autobiography. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 477. 1919. Hodder and Stoughton. 8s. 6d.
- The Glow Worm, and other Beetles. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 496. 1919. Hodder and Stoughton. 8s. 6d.
- The Life of the Grasshopper. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 318. 1917. Hodder and Stoughton. 8s. 6d.
- The Sacred Beetle and Others. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 317. 1918. Hodder and Stoughton. 8s. 6d.
- The Life of the Spider. Translated by A. T. de Mattos. Large Cr. 8vo. Pp. 418. 1918. Hodder and Stoughton. 8s. 6d.
- Fabre, J. H.** The Life and Lore of the Insect. Translated by A. T. de Mattos. Cr. 8vo. Pp. 262. 1918. Black. 7s. 6d.
- The Wonders of Instinct: Chapters in the Psychology of Insects. Translated by A. T. de Mattos and B. Miall. 5th imp. Demy 8vo. Pp. 320. 1919. Fisher Unwin. 10s. 6d.
- Social Life in the Insect World. Translated by B. Miall. 13th imp. Demy 8vo. Pp. 327. 1920. Fisher Unwin. 10s. 6d.
- Forel, A.** The Senses of Insects. Translated by M. Yearsley. Demy 8vo. Pp. 331. 1908. Methuen. 12s. 6d.
- Fowler, W. W.** The Coleoptera of the British Islands. A Descriptive Account of the Families, Genera, and Species, with Notes as to Localities, Habitats, etc. 6 Vols. Demy 8vo. 1887-1913. Lovell Reeve. £6 6s.
- Furneaux, W. S.** British Butterflies and Moths. Cr. 8vo. Pp. 372. 1916. Longmans. 6s. 6d.
- Gillanders, A. T.** Forest Entomology. 2nd edn. Cr. 8vo. Pp. 452. 1912. Blackwood. 15s.
- Hardy, G. H.** The Book of the Fly. Cr. 8vo. Pp. 124. 1915. Heinemann. 2s. 6d.
- Hewitt, C. G.** The House-Fly. Demy 8vo. Pp. 397. 1914. Cambridge University Press. 18s.
- House Flies and How they Spread Disease. Roy. 16mo. Pp. 131. 1914. Cambridge University Press. 2s. 6d.
- Hofmann, E.** The Young Beetle-Collector's Handbook. 3rd edn. Cr. 8vo. Pp. 178. 1908. Allen and Unwin. 5s.
- Kirby, W. E.** British Butterflies and Moths. 70 Coloured Plates, containing figures of all the larger Lepidoptera, many Caterpillars and Chrysalides, and 4 Plates of Microlepidoptera. 2nd edn. 8vo. Pp. 510. Routledge. 12s. 6d.

- Kirby, W. E.** *Elementary Text-book of Entomology*. 2nd edn. Large Cr. 8vo. Pp. 281. 1892. Allen and Unwin. 10s. 6d.
- Land, H. C.** *The Butterflies of Europe*. In 2 Vols. With 82 Coloured Plates, containing upwards of 900 Figures. Super Roy. 8vo. 1884. Lovell Reeve. £3 18s.
- Latter, O. H.** *Bees and Wasps*. Roy. 16mo. Pp. 138. 1913. Cambridge University Press. 2s. 6d.
- Miall, L. C.** *Natural History of Aquatic Insects*. Cr. 8vo. Pp. 408. 1903. Macmillan. 4s.
- **and Denny, A.** *The Structure and Life History of the Cockroach (Periplaneta Orientalis)*. An Introduction to the Study of Insects. 8vo. Pp. 224. 1886. Lovell Reeve. 7s. 6d.
- **and Hammond, A. R.** *The Harlequin Fly: its Structure and Life History*. 8vo. Pp. 204. 1900. Oxford: Clarendon Press. 7s. 6d.
- Moggridge, J. T.** *Harvesting Ants, and Trap-Door Spiders. Notes and Observations on their Habits and Dwellings at Mentone*. With Supplement. 8vo. Pp. 304, and 20 Plates. 1873. Lovell Reeve. 12s.
- Moore, F.** *The Lepidoptera of Ceylon. Rhopalocera and Heterocera*. 3 Vols. 215 Coloured Plates. Demy 4to. 1880-1887. Lovell Reeve. £21 12s.
- **and Swinhoe, C.** *Lepidoptera Indica. Phopalocera*. Complete in 10 vols. with 835 Coloured Plates. Demy 4to. 1890-1913. Per Vol. £9 5s. Complete set (which may be taken in monthly or bi-monthly volumes) £85. Lovell Reeve.
- Morris, F. O.** *Natural History of British Moths*. 1933 hand-painted figures. 4 Vols. 6th edn. Super Roy. 8vo. Pp. 285., 180., 227., 327. 1903. Routledge. 70s.
- **British Butterflies**. 79 hand-painted Plates. Super Roy. 8vo. Pp. 242. 1904. Routledge. 25s.
- Nuttall, G. H. F., and others.** *Ticks. A Monograph of the Ixodoidea*. Roy. 8vo. Part 1. Pp. 114. 1908. 7s. 6d. Part 2. Pp. 368. 1911. 14s. Part 3. Pp. 564. 1915. 14s. Bibliography. Part 1. Pp. 74. 1911. 7s. 6d. Part 2. Pp. 36. 1915. 6s. 6d. Cambridge University Press.
- Pearce, E. K.** *Typical Flies. A Photographic Atlas*. Roy. 8vo. Pp. 60. 1915. Cambridge University Press. 6s.
- Poulton, E. B.** *Colours of Animals: their Meaning and Use, especially considered in the Case of Insects*. 2nd edn. Cr. 8vo. Pp. 373. 1890. Kegan Paul. 7s. 6d.
- Punnett, R. C.** *Mimicry in Butterflies*. Roy. 8vo. Pp. 196. 1915. Cambridge University Press. 15s.
- Ross, E. H.** *The Reduction of Domestic Flies*. Demy 8vo. Pp. 103. 1913. Murray. 5s.
- Rye, E. C., and Fowler, W.** *British Beetles. 16 Coloured Plates and Woodcuts*. 2nd edn. Cr. 8vo. Pp. 288. 1889. Lovell Reeve. 10s. 6d.
- Russell, H.** *The Flea*. Roy. 16mo. Pp. 132. 1913. Cambridge University Press. 2s. 6d.
- Saunders, E.** *The Hemiptera Heteroptera of the British Islands: A Descriptive account of the Families, Genera, and Species indigenous to Great Britain and Ireland; with a Structural Plate*. Demy 8vo. Pp. 350. 1892. 21s. Large paper edn. With 31 Plates, illustrating about 300 Species. Super Roy. 8vo. Coloured, 63s. Uncoloured, 42s. Lovell Reeve.
- *The Hymenoptera Aculeata of the British Isles. A Descriptive account of the Families, Genera, and Species indigenous to Great Britain and Ireland. With 8 Structural Plates*. Demy 8vo. Pp. 391. 1896. Lovell Reeve. 21s.
- *Wild Bees, Wasps, Ants and other Stinging Insects*. Cr. 8vo. Pp. 150. Routledge. 4s. 6d.

- Scorer, A. G.** | The Entomologist's Log Book. A Dictionary in Latin and English of the Life-Histories and Food Plants of British Butterflies and larger Moths. 8vo. Pp. 380. 1913. Routledge. 10s. 6d.
- Sharp, D., and Fowler, W. W.** A Catalogue of the British Coleoptera. Pp. 46. 1893. Lovell Reeve. 1s. 6d.
- Sharpe, E. M. Bowdler.** Monograph of the Genus *Teracolus*. 44 Coloured Plates. Demy 4to. Pp. 156. 1914. Lovell Reeve. 63s.
- Shipley, Sir A. E.** The Minor Horrors of War. 3rd edn. Large Post 8vo. Pp. 186. 1916. Murray. 2s.
- More Minor Horrors. Large Post 8vo. Pp. 163. 1916. Murray. 2s.
- Shuckard, W. E.** British Bees. Cr. 8vo. Pp. 371. 1866. Lovell Reeve. 10s. 6d.
- South, R.** The Butterflies of the British Isles. A complete Pocket Guide. Pocket size. Pp. 216. Warne. 8s. 6d.
- The Moths of the British Isles. A Complete Pocket Guide: 2 Vols. Pocket Size. Pp. 350., 382. Warne. 12s. 6d. each vol.
- Stainton, H. T.** British Butterflies and Moths. 2nd edition. 16 Coloured Plates. Cr. 8vo. Pp. 292. Lovell Reeve. 10s. 6d.
- Staveley, E. F.** British Insects. A Familiar Description of the Form, Structure, Habits, and Transformations of Insects. Cr. 8vo. Pp. 392. Lovell Reeve. 10s. 6d.
- Swanton, E. W.** British Plant-Galls. A Classified Text-Book of Cecidology. Cr. 8vo. Pp. 303. 1912. Methuen. 10s. 6d.
- Swinhoe, C.** Catalogue of Eastern and Australian Lepidoptera Heterocera in the Oxford University Museum. 8vo. Part 1. Sphingæ and Bombyces. Pp. 332. 1892. 21s. Part 2. Noctuina, Geometrina, and Pyralidina, by C. Swinhoe; Pterophoridae and Tineina, by Lord Walsingham and J. H. Durrant. Pp. 638. 1900. 42s. Oxford: Clarendon Press.
- Theobald, F. V.** Insect Life: A Short Account of the Classification and Habits of Insects. 2nd edn. Cr. 8vo. Pp. 248. 1905. Methuen. 3s. 6d.
- Tillyard, R. J.** The Biology of Dragon-Flies. Demy 8vo. Pp. 409. 1917. Cambridge University Press. 17s.
- Tutt, J. W.** The British Noctuæ and their Varieties. 4 Vols. Cr. 8vo. Pp. 575. 1891. Allen & Unwin. 7s. each.
- Melanism and Melanochroism in British Lepidoptera. Demy 8vo. Pp. 66. 1891. Allen & Unwin. 5s.
- Warburton, C.** Spiders. Roy. 16mo. Pp. 146. 1912. Cambridge University Press. 3s. 6d.
- Wilson, O. S.** The Larvæ of the British Lepidoptera, and their Food Plants. With 40 Coloured Plates containing over 400 Figures. Super Roy. 8vo. Pp. 396. 1880. Lovell Reeve. 63s.

vi. OTHER INVERTEBRATES.

- Beddard, F. E.** The Order Oligochaeta: a Monograph. Structural and Systematic. Demy 4to. Pp. 770. 1895. Oxford: Clarendon Press. 42s.
- Earthworms and their Allies. Roy. 16mo. Pp. 155. 1912. Cambridge University Press. 2s. 6d.
- Beneden, P. J.** Animal Parasites and Messmates. 5th edn. Cr. 8vo. Pp. 302. 1904. Kegan Paul. 7s. 6d.
- Dakin, W. J.** Pearls. Roy. 16mo. Pp. 149. 1913. Cambridge University Press. 2s. 6d.
- Darwin, C.** Vegetable Mould: The Formation of Vegetable Mould through the Action of Earth-Worms. Cr. 8vo. Pp. 298. 1904. Murray. 7s. 6d.
- Dobell, C.** The Amœbe living in Man. Roy. 8vo. Pp. 164. 1919. Bale & Danielsson. 7s. 6d.

- Fantham, H. B., and Porter, A.** Some Minute Animal Parasites; or Unseen Foes in the Animal World. Cr. 8vo. Pp. 332. 1914. Methuen. 7s. 6d.
- Griffiths, A. B.** The Physiology of the Invertebrata. Demy 8vo. Pp. 486. 1892. Lovell Reeve. 15s.
- Huxley, T. H.** The Crayfish: an Introduction to the Study of Zoology. 7th edn. Cr. 8vo. Pp. 385. 1906. Kegan Paul. 7s. 6d.
- Kew, H. W.** The Dispersal of Shells. Cr. 8vo. Pp. 305. 1893. Kegan Paul. 7s. 6d.
- Lovell, M. S.** The Edible Mollusca of Great Britain and Ireland, with the Modes of Cooking them. 2nd edn. Cr. 8vo. Pp. 310. Lovell Reeve. 10s. 6d.
- Pennington, A. S.** British Zoophytes: Hydroida, Actinozoa, and Polyzoa. 24 Plates. Cr. 8vo. Pp. 363. 1885. Lovell Reeve. 10s. 6d.
- Shipley, Sir A. E.** Pearls and Parasites. Demy 8vo. Pp. 232. 1908. Murray. 7s. 6d.
- Stebbing, T. R. R.** A History of Crustacea: Recent Malacostraca. Cr. 8vo. Pp. 484. 1893. Kegan Paul. 7s. 6d.
- Step, E.** Shell Life. An Introduction to the British Mollusca. Cr. 8vo. Pp. 414. Warne. 7s. 6d.
- Webb, W. M., and Sillem, C.** The British Woodlice. Large Cr. 8vo. Pp. 60. 1906. Duckworth. 6s.
- Wollaston, T. V.** Testacea Atlantica. The Land and Freshwater Shells of the Azores, Madeiras, Salvages, Canaries, Cape Verde and St. Helena. 8vo. Pp. 588. 1878. Lovell Reeve. 21s.
- Wood-Jones, F.** Coral and Atolls. A History and Description of the Keeling-Cocos Islands, their Fauna and Flora, and a discussion of the Method of Development and Transformation of Coral Structures in General. Fully Illustrated. Reissue. Med. 8vo. Pp. 415. 1912. Lovell Reeve. 15s.
- Woodward, B. B.** The Life of the Mollusca. Cr. 8vo. Pp. 170. 1913. Methuen. 7s. 6d.
- vii. VERTEBRATES.
- a. General.
- Cunningham, J. T., Lydekker, R., Boulenger, G. A., and Thomson, J. A.** Reptiles, Amphibia, Fishes, and Lower Chordata. Demy 8vo. Pp. 522. 1912. Methuen. 12s. 6d.
- Fitzsimons, F. W.** The Natural History of South Africa. Mammals. 4 Vols. Cr. 8vo. Vol. 1. Pp. 197. 1919. 9s. Vol. 2. Pp. 207. 1919. 9s. Vol. 3. Pp. 292. 1920. 12s. 6d. Vol. 4. Pp. 291. 1920. 12s. 6d. Longmans.
- Johnston, J. B.** The Nervous System of Vertebrates. Med. 8vo. Pp. 370. 1908. Murray. 18s.
- Kingsley, J. S.** Comparative Anatomy of Vertebrates. 2nd edn. Demy 8vo. Pp. 449. 1919. Murray. 21s.
- Reynolds, S. H.** The Vertebrate Skeleton. 2nd edn. Demy 8vo. Pp. 552. 1913. Cambridge University Press. 20s.
- b. Fishes.
- Beavan, R.** Handbook of the Fresh-water Fishes of India. 12 Plates. 8vo. Pp. 255. 1877. Lovell Reeve. 10s. 6d.
- Furieux, W. S.** The Sea Shore. Cr. 8vo. Pp. 454. 1903. Longmans. 6s. 6d.
- Hickson, S. J.** The Fauna of the Deep Sea. Cr. 8vo. Pp. 185. 1893. Kegan Paul. 3s. 6d.
- Jenkins, J. T.** The Sea Fisheries. Roy. 8vo. Pp. 330. 1920. Constable. 24s.
- Johnstone, J.** British Fisheries: their Administration and their Problems. Demy 8vo. Pp. 350. 1905. Williams & Norgate. 10s. 6d.
- Conditions of Life in the Sea. Demy 8vo. Pp. 346. 1908. Cambridge University Press. 12s.
- Life in the Sea. Roy. 16mo. Pp. 152. 1911. Cambridge University Press. 2s. 6d.

- McIntosh, W. C.** The Resources of the Sea; as shown in the scientific experiments to test the effects of Trawling and of the Closure of certain areas off the Scottish shores. 2nd edn. Demy 8vo. Pp. 360. 1921. Cambridge University Press. 35s.
- and **Masterman, A. T.** The Life-Histories of the British Marine Food-Fishes. Demy 8vo. Pp. 516. 1897. Cambridge University Press. 28s.
- Meek, A.** The Migrations of Fish. Demy 8vo. Pp. 448. 1916. Arnold. 18s.
- Regan, C. T.** The Freshwater Fishes of the British Isles. Cr. 8vo. Pp. 311. 1911. Methuen. 7s. 6d.
- Samuel, A. M.** The Herring: its Effect on the History of Britain. Demy 8vo. Pp. 199. 1918. Murray. 12s.
- c. Batrachians and Reptiles.**
- Boulenger, G. A.** The Snakes of Europe. 2nd edn. Cr. 8vo. Pp. 282. 1913. Methuen. 7s. 6d.
- Ecker, A.** Anatomy of the Frog. Translated with annotations and additions by G. Haslam. Med. 8vo. Pp. 466. 1899. Oxford: Clarendon Press. 18s.
- Leighton, G. R.** The Life-History of British Serpents, and their Local Distribution in the British Isles. Cr. 8vo. Pp. 399. 1901. Blackwood. 5s.
- Marshall, A. M.** The Frog. Edited by F. W. Gambic. 11th edn. Cr. 8vo. Pp. 190. 1919. Macmillan. 6s.
- d. Birds.**
- Atkinson, J. C.** British Birds' Eggs and Nests. New edn. Cr. 8vo. Pp. 247. N.D. Routledge. 5s.
- Bonhote, J. L.** Birds of Britain, containing 100 full-page Coloured Plates. 5th imp. Sq. Demy 8vo. Pp. 405. 1917. Black. 16s.
- Boraston, J. M.** British Birds and their Eggs. With a New Method of Identification. With 136 Coloured Plates. Cr. 8vo. Pp. 311. N.D. Chambers. 10s. 6d.
- Bradley, O. C.** The Structure of the Fowl. Cr. 8vo. Pp. 153. 1915. Black. 6s.
- Coward, T. A.** The Migration of Birds. 2nd edn. Roy. 16mo. Pp. 137. 1912. Cambridge University Press. 2s. 6d.
- The Birds of the British Isles and Their Eggs. First Series. with 242 coloured illustrations. Pocket size. Vol. 1. The Land Birds (Families Corvidæ to Sulidæ). Pp. 384. 1920. Vol. 2. Families Anatidæ to Tetraonidæ. Pp. 384. 1920. Warne. 12s. 6d. each vol.
- Dixon, C.** Open-Air Studies in Bird-Life: Sketches of British Birds in their Haunts. Cr. 8vo. Pp. 282. 1903. Griffin. 7s. 6d.
- Evans, A. H.** The Birds of Britain: their Distribution and Habits. Cr. 8vo. Pp. 288. 1916. Cambridge University Press. 5s.
- Hudson, W. H.** British Birds. With a Chapter on Structure and Classification by F. E. Beddard. Cr. 8vo. Pp. 385. 1918. Longmans. 6s. 6d.
- Johns, C. A.** British Birds in Their Haunts. 15th edn. Post 8vo. Pp. 626. 1920. S.P.C.K. 10s.
- Millais, J. G.** The Natural History of the British Surface-Feeding Ducks. With Coloured Plates by A. Thorburn, and the Author. Roy. 4to. Longmans. 126s.
- Pycraft, W. P.** A History of Birds. Demy 8vo. Pp. 472. 1910. Methuen. 12s. 6d.
- Thomson, A. L.** Britain's Birds and their Nests. With 132 Coloured Drawings by G. Rankin. Roy. 8vo. Pp. 368. N.D. Chambers. 25s.
- Thorburn, A.** British Birds. With 82 Coloured Plates by the Author. 4 Vols. 4to. 1918. Longmans. £10 10s.
- Westell, W. P.** The Young Ornithologist. A Guide to the Haunts, Homes and Habits of British Birds. Cr. 8vo. Pp. 328. 1911. Methuen. 6s.

e. Mammals.

- Beddard, F. E.** *A Book of Whales.* Large Cr. 8vo. Pp. 320. 1900. Murray. 7s. 6d.
- Bresslau, E.** *The Mammary Apparatus of the Mammalia in the Light of Protogenesis and Phylogenesis.* Cr. 8vo. Pp. 178. 1920. Methuen. 5s.
- Hartmann, R.** *Anthropoid Apes.* 2nd edn. Cr. 8vo. Pp. 334. 1904. Kegan Paul. 7s. 6d.
- Lydekker, R.** *A Geographical History of Mammals.* Cr. 8vo. Pp. 412. 1896. Cambridge University Press. 12s.
- *The Horse and its Relatives.* Demy 8vo. Pp. 286. 1912. Allen & Unwin. 12s. 6d.
- *The Sheep and Its Cousins.* Demy 8vo. Pp. 315. 1912. Allen & Unwin. 12s. 6d.
- Meysey-Thompson, R. F.** *The Horse. Its Origin and Development.* Demy 8vo. Pp. 448. 1911. Arnold. 15s.
- Millais, J. G.** *The Mammals of Great Britain and Ireland. With coloured Plates by A. Thorburn, G. E. Lodge, H. Grönvold, W. B. Davis, Sir E. Landseer, and the Author.* 3 Vols. 4to. Longmans. £18 18s.
- Ridgeway, Sir W.** *The Origin and Influence of the Thoroughbred Horse.* Demy 8vo. Pp. 564. 1905. Cambridge University Press. 15s.
- Schmidt, O.** *Mammalia in their Relation to Primeval Times.* 2nd edn. Cr. 8vo. Pp. 320. 1894. Kegan Paul. 7s. 6d.
- Thorburn, A.** *British Mammals. With 50 Coloured Plates by the Author.* 2 Vols. 4to. 1920-21. Longmans. £10 10s.
- *A Naturalist's Sketch Book. With 60 Plates by the Author.* 4to. 1919. Longmans. £6 6s.
- Westell, W. P.** *The Book of the Animal Kingdom: Mammals.* Fcap. 4to. Pp. 379. Dent. 12s. 6d.

viii. GEOGRAPHICAL DISTRIBUTION.

- Gadow, H.** *The Wanderings of Animals.* Roy. 16mo. Pp. 156. 1913. Cambridge University Press. 2s. 6d.
- Newbigin, M. I.** *Animal Geography.* Cr. 8vo. Pp. 328. 1913. Oxford: Clarendon Press. 4s. 6d.
- Scharff, R. F.** *European Animals: The Geological History and their Geographical Distribution.* Demy 8vo. Pp. 272. 1907. Constable. 7s. 6d.
- Wallace, A. R.** *The Geographical Distribution of Animals. With a Study of the relations of living and extinct Faunas as elucidating the past changes of the earth's surface.* 2 Vols. 8vo. Pp. 528., 620. 1876. Macmillan. 48s.

ix. EVOLUTION, VARIATION, HEREDITY, GENETICS, SEX, ORIGIN OF LIFE.

- Adami, J. G.** *Medical Contribution to the Study of Evolution.* Demy 8vo. Pp. 390. 1918. Duckworth. 18s.
- Alexander, F. M.** *Man's Supreme Inheritance.* New edn. Cr. 8vo. Pp. 270. 1918. Methuen. 7s. 6d.
- Ball, W. P.** *Are the Effects of Use and Disuse Inherited? An Examination of the view held by Spencer and Darwin.* Cr. 8vo. Pp. 168. 1890. Macmillan. 3s. 6d.
- Bateson, W.** *The Methods and Scope of Genetics.* Cr. 8vo. Pp. 48. 1912. Cambridge University Press. 2s.
- *Mendel's Principles of Heredity.* 3rd imp. Roy. 8vo. Pp. 429. 1913. Cambridge University Press. 15s.
- Bennett, W.** *The Ethical Aspects of Evolution, the Parallel Growth of Opposite Tendencies.* 8vo. Pp. 220. 1908. Oxford: Clarendon Press. 6s.
- Chamberlain, A.** *The Child: a Study in the Evolution of Man.* Cr. 8vo. Scott Pub. Co. 7s. 6d.

- Clodd, E.** *The Story of Creation: a Plain Account of Evolution.* Cr. 8vo. Pp. 258. 1916. Longmans. 6s.
- Darwin, C.** *Variation of Animals and Plants under Domestication.* 2 Vols. 2nd edn. Cr. 8vo. Pp. 566., 605. 1905. Murray. 15s.
- *The Foundations of the Origin of Species. Two Essays written in 1842 and 1844.* Edited by Sir F. Darwin. Demy 8vo. Pp. 294. 1909. Cambridge University Press. 7s. 6d.
- *The Descent of Man and Selection in Relation to Sex.* 2nd edn. Cr. 8vo.. Pp. 1031. 1913. Murray. 9s.
- *The Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life.* 6th edn. Cr. 8vo. Pp. 432. 1920. Murray. 7s. 6d.
- Dendy, A.** *Outlines of Evolutionary Biology, with Glossary of Technical Terms.* 2nd edn. Demy 8vo. Pp. 493. 1919. Constable. 15s.
- De Vries, H.** *The Mutation Theory: Experiments and Observations on the Origin of Species in the Vegetable Kingdom.* 2 Vols. Large 8vo. Pp. 597., 691. 1910-11. Kegan Paul. 36s.
- Doncaster, L.** *Heredity in the Light of Recent Research.* Roy. 16mo. Pp. 167. 1912. Cambridge University Press. 2s. 6d.
- *The Determination of Sex.* Demy 8vo. Pp. 184. 1914. Cambridge University Press. 12s.
- Drinkwater, H.** *A Lecture on Mendelism.* Demy 8vo. Pp. 31. Dent. 3s. 6d.
- Galton, F.** *Hereditary Genius. An Inquiry into its Laws and Consequences.* 3rd imp. Cr. 8vo. Pp. 412. 1914. Macmillan. 6s. 6d.
- and **Schuster, E.** *Noteworthy Families—(Modern Science).* An Index to Kinships in near Degrees between Persons whose Achievements are Honourable and have been Publicly Recorded. Cr. 8vo. Pp. 96. 1906. Murray. 6s.
- Gates, R. R.** *The Mutation Factor in Evolution, with particular reference to *Oenothera*.* 8vo. Pp. 370. 1915. Macmillan. 12s. 6d.
- Geddes, P., and Thomson, J. A.** *Sex.* Fcap. 8vo. Pp. 255. 1919. Williams & Norgate. 2s. 6d.
- Haldane, J. S.** *Mechanism, Life and Personality. An Examination of the Mechanistic Theory of Life and Mind.* 2nd edn. Cr. 8vo. Pp. 160. 1921. Murray. 6s.
- Hartog, M.** *Problems of Life and Reproduction.* Large Cr. 8vo. Pp. 362. 1913. Murray. 7s. 6d.
- Herbert, S.** *First Principles of Evolution.* 2nd edn. Cr. 8vo. Pp. 348. 1919. Black. 12s. 6d.
- *First Principles of Heredity.* 2nd edn. Cr. 8vo. Pp. 199. 1920. Black. 7s. 6d.
- Hird, D.** *A Picture Book of Evolution.* New edn. Cr. 8vo. Pp. 380. 1920. Watts. 12s. 6d.
- Huxley, T. H.** *Darwiniana.* New imp. Gl. 8vo. Pp. 475. 1907. Macmillan. 6s.
- *Evolution and Ethics and other Essays.* New imp. Gl. 8vo. Pp. 334. 1911. Macmillan. 6s.
- *Man's Place in Nature and Other Essays.* New imp. Gl. 8vo. Pp. 328. 1910. Macmillan. 6s.
- Jevons, F. B.** *Evolution.* Cr. 8vo. Pp. 301. 1900. Methuen. 6s.
- Johnstone, J.** *The Philosophy of Biology.* Demy 8vo. Pp. 408. 1914. Cambridge University Press. 12s.
- Judd, J. W.** *The Coming of Evolution.* Roy. 16mo. Pp. 171. 1912. Cambridge University Press. 2s. 6d.
- Kidd, W.** *Initiative in Evolution.* 8vo. Pp. 272. 1920. Witherby. 15s.
- Lamarck, J. B.** *Zoological Philosophy. An Exposition with regard to the Natural History of Animals.* Translated, with an Introduction by H. S. Elliot. 8vo. Pp. 502. 1914. Macmillan. 18s.

- Lluria, E.** *Super-Organic Evolution: Nature and the Social Problem.* Cr. 8vo. Pp. 233. 1910. Williams & Norgate. 7s. 6d.
- Lock, R. H.** *Recent Advances in the Study of Variation, Heredity and Evolution.* Revised by L. Doncaster. Large Cr. 8vo. Pp. 336. 1916. Murray. 9s.
- Macfie, R. C.** *Heredity, Evolution, and Vitalism: The Results of Modern Research into these Questions—their Trend and Significance.* Demy 8vo. Pp. 302. 1912. John Wright. 6s.
- MacNamara, N. C.** *The Evolution and Function of Living Purposive Matter.* Cr. 8vo. Pp. 309. 1910. Kegan Paul. 7s. 6d.
- Mitchell, P. C.** *Evolution and the War.* Cr. 8vo. Pp. 114. 1915. Murray. 4s. 6d.
- Moore, B.** *The Origin and Nature of Life.* Fcap. 8vo. Pp. 256. 1913. Williams & Norgate. 2s. 6d.
- Morgan, C. L.** *Eugenics and Environment.* Cr. 8vo. Pp. 88. 1919. Bale and Danielsson. 2s.
- Nash, J. T. C.** *Evolution and Disease.* Demy 8vo. Pp. 320. 1912. John Wright. 3s. 6d.
- Oliver, F. W., Bayliss, W. M., and others.** *Life and Its Maintenance: A Symposium on Biological Problems of the Day.* Lectures delivered at University College, London. 1918. Cr. 8vo. Pp. 305. 1919. Blackie. 5s.
- Pearson, K.** *The Chances of Death, and other Studies in Evolution.* 2 Vols. Demy 8vo. Pp. 388., 460. 1897. Cambridge University Press. 27s.
- *The Grammar of Science.* 3rd edn. Demy 8vo. Part 1. Physical. Pp. 394. 1911. 10s. Part 2. Biological. In preparation. Black.
- *Tables for Statisticians and Biometricians.* Demy 4to. Pp. 226. 1914. Cambridge University Press. 15s.
- Poulton, E. B.** *Essays on Evolution, 1889-1907.* 8vo. Pp. 528. 1908. Oxford: Clarendon Press. 12s.
- Punnett, R. C.** *Mendelism.* 5th edn. Cr. 8vo. Pp. 236. 1919. Macmillan. 7s. 6d.
- Reid, Sir G. A.** *The Laws of Heredity. With a Diagrammatic Representation by H. H. Turner.* 2nd edn. Demy 8vo. Pp. 560. 1910. Methuen. 21s.
- Ritchie, J.** *The Influence of Man on Animal Life in Scotland. A Study in Faunal Evolution.* Roy. 8vo. Pp. 556. 1920. Cambridge University Press. 28s.
- Romanes, G. J.** *An Examination of Weismannism.* Cr. 8vo. Pp. 234. 1893. Longmans. 6s.
- *Darwin and After Darwin: an Exposition of the Darwinian Theory, and a Discussion on Post-Darwinian Questions.* Cr. 8vo Part 1. *The Darwinian Theory.* 3rd imp. Pp. 476. 1905. Part 2. *Post-Darwinian Questions: Heredity and Utility.* New edn. Pp. 356. 1900. Longmans. 10s. 6d. each.
- Roper, A. G.** *Ancient Eugenics.* Cr. 8vo. Pp. 80. 1913. Oxford University Press. 3s.
- Schmidt, O.** *Doctrine of Descent and Darwinism.* 8th edn. Cr. 8vo. Pp. 338. 1905. Kegan Paul. 7s. 6d.
- Seward, A. C. (edited by).** *Darwin and Modern Science. Essays in Commemoration of the Centenary of the Birth of Charles Darwin and of the Fiftieth Anniversary of the publication of *The Origin of Species*.* Roy. 8vo. Pp. 595. 1910. Cambridge University Press. 24s.
- Thomson, J. A.** *Darwinism and Human Life.* 5th edn. Demy 8vo. Pp. 263. 1919. Melrose. 7s. 6d.
- *Heredity.* 4th edn. Large Cr. 8vo. Pp. 643. 1920. Murray. 21s.
- *and Geddes, P.* *Evolution.* Fcap. 8vo. Pp. 256. 1918. Williams & Norgate. 2s. 6d.
- Vernon, H. M.** *Variation in Animals and Plants.* Cr. 8vo. Pp. 432. 1903. Kegan Paul. 7s. 6d.

- Wallace, A. R.** Contributions to the Theory of Natural Selection, and Tropical Nature, and other Essays on Descriptive and Theoretical Biology. Cr. 8vo. Pp. 504. 1895. Macmillan. 8s. 6d.
- Darwinism: An Exposition of the Theory of Natural Selection. 3rd. edn. Cr. 8vo. Pp. 514. 1912. Macmillan. 8s. 6d.
- The World of Life: A Manifestation of Creative Power, Directive Mind, and Ultimate Purpose. 5th edn. Cr. 8vo. Pp. 424. 1914. Chapman & Hall. 6s.
- Ward, J.** Heredity and Memory. Henry Sidgwick Lecture, 1912. Cr. 8vo. Pp. 56. 1915. Cambridge University Press. Paper, 1s. Cloth 1s. 6d.
- Wasmann, E.** The Problem of Evolution. 2nd edn. 8vo. Pp. 280. 1912. Kegan Paul. 6s.
- Weismann, A.** Essays upon Heredity. Authorised Translation. 2 Vols. Cr. 8vo. Vol. 1. Edited by E. B. Poulton, S. Schönland, and Sir A. F. Shipley. 2nd edn. Pp. 488. 1891. 8s. 6d. Vol. 2. Pp. 234. 1892. 6s. Oxford: Clarendon Press.
- The Germ Plasm: A Theory of Heredity. Cr. 8vo. Scott Pub. Co. 7s. 6d.
- The Evolution Theory. Translated by J. A. and M. Thomson. 2 Vols. Roy. 8vo. Pp. 432., 404. 1904. Arnold. 32s.
- Wilson, J.** A Manual on Mendelism. Large Cr. 8vo. Pp. 150. 1916. Black. 3s. 6d.
- x. CYTOLOGY.**
- Agar, W. E.** Cytology: with special reference to the Metazoan Nucleus. Demy 8vo. Pp. 236. 1920. Macmillan. 12s.
- Doncaster, L.** An Introduction to the Study of Cytology. Demy 8vo. Pp. 294. 1920. Cambridge University Press. 21s.
- xi. MICROSCOPY.**
- Barnard, J. E.** Practical Photomicrography. Demy 8vo. Pp. 344. 1910. Arnold. 16s.
- Carpenter, W. B.** The Microscope and its Revelations. Edited by W. H. Dallinger. 8th edn. 8vo. Pp. 1202. 1901. Churchill. 32s.
- Coles, A. C.** Critical Microscopy. How to Get the best out of the Microscope. 8vo. Pp. 112. 1921. Churchill. 7s. 6d.
- Cross, M. I., and Cole, M. J.** Modern Microscopy. A Handbook for Beginners and Students, with chapters on special subjects by various writers. 4th edn. Demy 8vo. Pp. 444. 1912. Baillière. 8s. 6d.
- Ealand, C. A.** The Romance of the Microscope. An Interesting Description of its uses in all branches of Science, Industry, Agriculture, and in the Detection of Crime, with a short account of its origin, history and development. Cr. 8vo. Pp. 314. 1921. Seeley. 6s.
- Gosse, P. H., and Bell, J.** Evenings at the Microscope: or Researches among the Minuter Organs and Forms of Animal Life. Cr. 8vo. Pp. 434. 1895. S.P.C.K. 5s.
- Hall, C. A.** How to Use the Microscope. A Guide for the Novice. Cr. 8vo. Pp. 88. 1912. Black. 2s. 6d.
- Naegeli, C., and Schwendener, S.** The Microscope in Theory and Practice. Translated by F. Crisp and J. Mayall. 2nd edn. Demy 8vo. Pp. 382. 1899. Allen & Unwin. 9s.
- Scales, F. S.** Practical Microscopy: An Introduction to Microscopical Methods. 2nd edn. Cr. 8vo. Pp. 334. 1909. Baillière. 7s. 6d.
- Spiers, F. S.** (edited by). The Microscope: its Design, Construction and Applications. A Symposium and General Discussion by many Authorities. 8vo. Pp. 265. 1920. Griffin. 21s.
- Spitta, E. J.** Microscopy: The Construction, Theory, and Use of the Microscope. 3rd edn. Med. 8vo. Pp. 500. 1920. Murray. 25s.
- Wood, J. G.** Common Objects of the Microscope. 2nd edn. Revised by E. C. Bousfield. Cr. 8vo. Pp. 198. N.D. Routledge. 4s. 6d.

Wright, Sir A. E. *Principles of Microscopy. An Introduction to Work with the Microscope.* Super Roy. 8vo. Pp. 272. 1906. Constable. 21s.

Wright, L. *A Popular Handbook to the Microscope.* 3rd imp. Cr. 8vo. Pp. 256. N.D. Religious Tract Society. 5s.

xii. ANTHROPOLOGY.

Alexander, F. M. *Conscious Control in Relation to Human Evolution in Civilization.* Cr. 8vo. Pp. 64. 1912. Methuen. 2s. 6d.

Avebury, Lord. *The Origin of Civilisation, and the Primitive Condition of Man: Mental and Social Condition of Savages.* 7th edn. 8vo. Pp. 482. 1912. Longmans. 9s.

— *Prehistoric Times, as illustrated by Ancient Remains and the Manners and Customs of Modern Savages.* 7th edn. Demy 8vo. Pp. 623. 1913. Williams & Norgate. 12s. 6d.

Buttel-Reepen, H. *Man and His Forerunners.* Translated by A. G. Thacker. 8vo. Pp. 106. 1913. Longmans. 2s. 6d.

Churchward, A. *The Origin and Evolution of Primitive Man.* Cr. 8vo. Pp. 86. 1912. Allen and Unwin. 5s.

Darwin, C. *Expression of the Emotions in Man and Animals.* Cr. 8vo. Pp. 394. 1901. Murray. 12s.

Deniker, J. *The Races of Man: an Outline of Anthropology and Ethnography.* Cr. 8vo. Scott Pub. Co. 7s. 6d.

Elliot, G. F. S. *Prehistoric Man and His Story.* 3rd edn. Demy 8vo. Pp. 320. Seeley. 10s. 6d.

Galton, Sir F. *Life History Album. Tables and Charts for recording the development of body and mind from childhood upwards.* 2nd edn. Roy. 8vo. Pp. 269. 1914. Cambridge University Press. 7s. 6d.

Haddon, A. C., and Quiggin, A. H. *History of Anthropology.* Cr. 8vo. Pp. 168. 1910. Watts. 3s. 6d.

Jackson, J. W. *Shells as Evidence of the Migrations of Early Culture.* 8vo. Pp. 244. 1917. Longmans. 8s. 6d.

Jones, F. W. *Arboreal Man.* Demy 8vo. Pp. 230. 1918. Arnold. 8s. 6d.

Keane, A. H. *Man, Past and Present.* Revised, and largely Re-written, by A. H. Quiggin and A. C. Haddon. Roy. 8vo. Pp. 594. 1920. Cambridge University Press. 36s.

Keith, Sir A. *The Antiquity of Man.* 4th imp. Med. 8vo. Pp. 539. 1920. Williams & Norgate. 12s. 6d.

Marett, R. R. *Anthropology.* Fcap. 8vo. Pp. 256. 1919. Williams & Norgate. 2s. 6d.

Quatrefages, A. de. *The Human Species.* 6th edn. Cr. 8vo. Pp. 508. 1903. Kegan Paul. 7s. 6d.

Read, C. *The Origin of Man and of his Superstitions.* Demy 8vo. Pp. 362. 1920. Cambridge University Press. 18s.

Ripley, W. Z. *The Races of Europe. A Sociological Study.* 2nd imp. 8vo. Pp. 656. N.D. Kegan Paul. 25s.

Smith, G. E. *The Migrations of Early Culture. A Study of the Significance of the Geographical Distribution of the Practice of Mummification as Evidence of the Migrations of Peoples and the Spread of certain Customs and Beliefs.* 8vo. Pp. 152. 1915. Longmans. 7s. 6d.

Smith, W. G. *Man, the Primeval Savage: his Haunts and Relics.* Demy 8vo. Pp. 340. Stanford. 10s. 6d.

Wright, G. F. *The Origin and Antiquity of Man.* Cr. 8vo. Pp. 545. 1913. Murray. 10s. 6d.

BOTANY.

1. GENERAL.

- Alcock, R. A.** Botanical names for English Readers, containing a History of Botany, and explaining the derivation and meanings of names of British plants. 8vo. Pp. 246. 1876. Lovell Reeve. 6s.
- Arber, A.** Water Plants. A Study of Aquatic Angiosperms. Rdy. 8vo. Pp. 452. 1920. Cambridge University Press. 31s. 6d.
- Herbals: Their Origin and Evolution. A Chapter in the History of Botany, 1470-1760. Roy. 8vo. Pp. 271. 1912. Cambridge University Press. 14s.
- Atkinson, G. F.** Botany for Schools and Colleges. Cr. 8vo. Pp. 493. 1910. Bell. 5s.
- Avebury, Lord.** On British Wild Flowers considered in Relation to Insects. Cr. 8vo. Pp. 210. 1909. Macmillan. 4s. 6d.
- Bentham, G., and Hooker, Sir J. D.** Outlines of Elementary Botany, as Introductory to Local Floras. 4th edn. Cr. 8vo. Pp. 61. Lovell Reeve. 1s.
- Bevis, J. F., and Jeffery, H. J.** British Plants: their Biology and Ecology. 2nd edn. Demy 8vo. Pp. 358. 1920. Methuen. 7s. 6d.
- Bonnier, G.** Name This Flower. Translated from the French and edited by G. S. Boulger. Small Cr. 8vo. Pp. 331. 1917. Dent. 7s. 6d.
- Bower, F. O.** Botany of the Living Plant. 8vo. Pp. 590. 1919. Macmillan. 25s.
- The Origin of a Land Flora. A Theory based upon the Facts of Alternation. 8vo. Pp. 740. 1908. Macmillan. 21s.
- Bower, F. O.** Plant Life on Land. Roy. 16mo. Pp. 172. 1912. Cambridge University Press. 2s. 6d.
- and Gwynne-Vaughan, D. T. Practical Botany for Beginners. Gl. 8vo. Pp. 320. 1918. Macmillan. 4s.
- Catechism Series.** Botany. 2nd edn. 2 Parts. Revised by C. R. Whittaker. Livingstone. 1s. 9d. each.
- Cavers, F.** Botany for Matriculation. 6th imp. Cr. 8vo. Pp. 576. 1919. University Tutorial Press. 8s. 6d.
- Practical Botany. 2nd edn. 3rd imp. Cr. 8vo. Pp. 436. 1920. University Tutorial Press. 6s. 6d.
- Plant Biology. 8th imp. Cr. 8vo. Pp. 476. 1919. University Tutorial Press. 6s.
- Church, A. H.** Floral Mechanism: Diagrams and Descriptions of Common Flowers, arranged as an introduction to the Systematic study of Angiosperms. Part 1. Types i-xii. (Jan. to April). Roy. 4to. Pp. 220. 1908. Oxford: Clarendon Press. 21s.
- Cooke, M. C.** Freaks and Marvels of Plant Life: or Curiosities of Vegetation. Post 8vo. Pp. 463. 1904. S.P.C.K. 3s. 6d.
- Darwin, C.** Different Forms of Flowers on Plants of the same Species. Cr. 8vo. Pp. 352. 1892. Murray. 7s. 6d.
- Insectivorous Plants. 2nd edn. Cr. 8vo. Pp. 377. 1908. Murray. 7s. 6d.
- Climbing Plants: Movements and Habits of Climbing Plants. Cr. 8vo. Pp. 208. 1906. Murray. 7s. 6d.

- Darwin, Sir F.** *The Elements of Botany.* 2nd edn. Cr. 8vo. Pp. 252. 1910. Cambridge University Press. 6s. 6d.
- Davis, J. R. A.** *The Flowering Plant, with a Supplementary Chapter on Ferns and Mosses.* 3rd edn. Cr. 8vo. Pp. 212. 1900. Griffin. 3s. 6d.
- De Bary, A.** *Lectures on Bacteria.* Translated by H. E. F. Garnsey. Revised by I. B. Balfour. 2nd edn. Cr. 8vo. Pp. 108. 1898. Oxford: Clarendon Press. 5s.
- Druce, G. C.** *The Dillenian Herbaria, An account of the Dillenian Collections in the Herbarium of the University of Oxford.* Edited with an Introduction by S. H. Vines. Cr. 8vo. Pp. 370. 1907. Oxford: Clarendon Press. 12s. 6d.
- Dykes, W. R.** *The Genus Iris.* Demy Folio. Pp. 254 and Plates. 1913. Cambridge University Press. £8 12s. 6d.
- Dymes, T. A.** *The Nature-Study of Plants in Theory and Practice for the Hobby-Botanist.* Large Cr. 8vo. Pp. 184. 1920. S.P.C.K. 6s.
- Edmonds, H.** *Elementary Botany.* Cr. 8vo. Pp. 288. 1919. Longmans. 4s.
- Elliot, G. F. S.** *Botany of To-Day.* Cr. 8vo. Pp. 352. 1909. Seeley. 7s. 6d.
- Ellis, D.** *Medicinal Herbs and Poisonous Plants.* Cr. 8vo. Pp. 199. 1918. Blackie. 2s. 6d.
- Ellis, E. T.** (edited by). *Black's Gardening Dictionary.* Demy 8vo. Pp. 1100. 1920. Black. 15s.
- Ellis, G. S. M.** *Applied Botany.* Cr. 8vo. Pp. 256. 1919. Hodder & Stoughton. 4s. 6d.
- Evans, E.** *Botany for Beginners.* Gl. 8vo. Pp. 340. 1919. Macmillan. 3s.
- *An Intermediate Text-Book of Botany.* Cr. 8vo. Pp. 402. 1911. Longmans. 6s. 6d.
- Ewart, A. J.** *Elementary Botany.* 2nd edn. 9th imp. Cr. 8vo. Pp. 356. 1920. University Tutorial Press. 5s.
- Farmer, J. B.** *Plant Life.* Fcap. 8vo. Pp. 255. 1919. Williams & Norgate. 2s. 6d.
- *A Practical Introduction to the Study of Botany: Flowering Plants.* Cr. 8vo. Pp. 285. 1915. Longmans. 4s. 6d.
- Fischer, E.** *Bacteria.* Translated by A. C. Jones. Roy. 8vo. Pp. 206. 1900. Oxford: Clarendon Press. 7s. 6d.
- Fritch, F. E., and Salisbury, E. J.** *An Introduction to the Study of Plants.* 4th edn. Demy 8vo. Pp. 405. 1919. Bell. 7s. 6d.
- *An Introduction to the Structure and Reproduction of Plants.* Demy 8vo. Pp. 466. 1920. Bell. 15s.
- *Elementary Studies in Plant Life.* 3rd edn. Cr. 8vo. Pp. 194. 1919. Bell. 3s. 6d.
- Furneaux, W. S.** *Field and Woodland Plants.* Cr. 8vo. Pp. 400. 1911. Longmans. 6s. 6d.
- Geddes, P.** *Chapters in Modern Botany.* Cr. 8vo. Pp. 201. 1893. Murray. 4s. 6d.
- *The Life and Work of Sir Jagadis C. Bose: An Indian Pioneer of Science.* Demy 8vo. Pp. 271. 1920. Longmans. 16s.
- Green, J. R.** *A History of Botany, 1860—1901. A Continuation of Sachs's History.* Cr. 8vo. Pp. 544. 1909. Oxford: Clarendon Press. 9s. 6d.
- *A History of Botany in the United Kingdom.* Med. 8vo. Pp. 648. 1914. Dent. 12s. 6d.
- *A Primer of Botany.* Fcap. 8vo. Pp. 128. 1909. Dent. 2s.
- Groom, P.** *Elementary Botany.* 16th edn. Cr. 8vo. Pp. 272. 1919. Bell. 5s.
- Guppy, H. B.** *Plants, Seeds, and Currents in the West Indies and Azores.* Med. 8vo. Pp. 531. 1917. Williams & Norgate. 25s.
- *Studies in Seeds and Fruits. An Investigation with the Balance.* Demy 8vo. Pp. 258. 1912. Williams & Norgate. 15s.

- Hall, C. A.** *Plant Life. Containing 50 Coloured and 24 Plain Plates. Square Demy 8vo. Pp. 380. 1915. Black. 10s.*
- Harvey-Gibson, R. J.** *Outlines of the History of Botany. Demy 8vo. Pp. 274. 1919. Black. 12s. 6d.*
- Heath, F. G.** *All About Leaves. Cr. 8vo. Pp. 228. 1914. Williams & Norgate. 2s. 6d.*
- Henslow, G.** *Botany for Beginners. 5th edn. Cr. 8vo. Pp. 108 and 30 Plates. 2s. 6d. Also with the plates coloured by hand. 14s. Stanford.*
- *Floral Rambles in Highways and Byways. Large Cr. 8vo. Pp. 296. 1915. S.P.C.K. 7s. 6d.*
- *The Uses of British Plants. Traced from Antiquity to the present day, together with the derivations of their names. With 288 Illustrations. Cr. 8vo. Pp. 184. 1905. Lovell Reeve. 6s.*
- Horwood, A. R.** *The Story of Plant Life in the British Isles. Cr. 8vo. 1914-15. Vol. 1. Pp. 254. Vol. 2. Pp. 372. Vol. 3. Pp. 530. Churchill. 6s. 6d. each.*
- *The Outdoor Botanist. A Simple Manual for the Study of British Plants in the Field. Demy 8vo. Pp. 284. 1920. Fisher Unwin. 18s.*
- *Practical Field Botany. A Guide to the Scope, Methods, Aims, and Limits of Modern Botanical Field-work. Cr. 8vo. Pp. 210. 1913. Griffin. 6s.*
- Jackson, B. D.** *A Glossary of Botanic Terms. 3rd edn. Cr. 8vo. Pp. 440. 1916. Duckworth. 7s. 6d.*
- Johnson, A. F. M.** *A Text-Book of Botany for Students, with Directions for Practical Work. Cr. 8vo. Pp. 560. n.d. Allman. 8s. 6d.*
- Jones, H. F.** *Plant Life: Studies in Garden and School. Cr. 8vo. Pp. 272. 1906. Methuen. 5s.*
- Jones, W. N., and Rayner, M. C.** *A Text-Book of Plant Biology. Cr. 8vo. Pp. 270. 1920. Methuen. 7s.*
- Laurie, C. L.** *Field Botany. 3rd edn. Cr. 8vo. Pp. 96. Allman. 1s. 6d.*
- *Flowering Plants. Their Structure and Habitat. 2nd edn. Cr. 8vo. Pp. 167. Allman. 3s. 6d.*
- *A Text-Book of Elementary Botany. 13th edn. Cr. 8vo. Pp. 195. Allman. 3s. 6d.*
- Lowson, J. M.** *Text-Book of Botany. 5th edn. 10th imp. Cr. 8vo. Pp. 615. 1919. University Tutorial Press. 9s. 6d.*
- *Text-Book of Botany (Indian Edition). Revised and adapted by B. Sahni and M. Willis. 2nd imp. Cr. 8vo. Pp. 622. 1919. University Tutorial Press. 9s. 6d.*
- Massee, G.** *The Plant World. Its Past, Present, and Future. An Introduction to the Study of Botany. 2nd edn. Cr. 8vo. Pp. 212. 1898. Pitman. 3s.*
- Mudge, G. P., and Maslen, A. J.** *A Class Book of Botany. 2nd imp. Cr. 8vo. Pp. 528. 1910. E. Arnold. 8s. 6d.*
- Oliver, D.** *Lessons in Elementary Botany. Fcap. 8vo. Pp. 312. 1910. Macmillan. 5s.*
- Oliver, F. W.** (edited by). *The Exploitation of Plants; by Various Experts. Cr. 8vo. Pp. 170. 1918. Dent. 3s. 6d.*
- *Makers of British Botany. Biographies by living Botanists. Demy 8vo. Pp. 340. 1913. Cambridge University Press. 10s.*
- Praeger, R. L.** *Open-Air Studies in Botany: Sketches of British Wild Flowers in their Homes. 2nd edn. Cr. 8vo. Pp. 280. 1910. Griffin. 7s. 6d.*
- Rennie, J.** *School Lessons in Plant and Animal Life. 3rd imp. Cr. 8vo. Pp. 496. 1920. University Tutorial Press. 6s. 6d.*
- Rendle, A. B.** *The Classification of Flowering Plants. Vol. 1. Gymnosperms and Monocotyledons. Demy 8vo. Pp. 346. 1904. Cambridge University Press. 12s. 6d.*

- Sachs, J. von.** History of Botany (1530—1860). Translated by H. E. F. Garnsey. Revised by I. B. Balfour. 2nd imp. Cr. 8vo. Pp. 568. 1906. Oxford: Clarendon Press. 10s. (see also Green, J. R.)
- Scott, D. G.** Elementary Lessons on Plant Life. Cr. 8vo. Pp. 236. 1911. Methuen. 4s.
- Stoneman, B.** Plants and Their Ways in South Africa. New edn. Cr. 8vo. Pp. 400. 1915. Longmans. 6s. 6d.
- Stopes, M. C.** The Study of Plant Life. 3rd edn. Demy 8vo. Pp. 202. N.D. Blackie. 6s.
- Storey, F. W., and Wright, K. M.** South African Botany. Cr. 8vo. Pp. 228. 1916. Longmans. 6s.
- Strasburger, E.** Handbook of Practical Botany, for the Botanical Laboratory and Private Student. Translated by W. Hillhouse. 6th edn. Demy 8vo. Pp. 527. 1911. Allen & Unwin. 10s. 6d.
- **Schenck, H., and others.** A Text-Book of Botany. 5th English edn. Revised with the 14th German edn. By W. H. Lang. 8vo. In the Press. Macmillan.
- Thoday, D.** Botany: a Text-book for Senior Students. 2nd edn. Cr. 8vo. Pp. 544. 1920. Cambridge University Press. 7s. 6d.
- Vines, S. H.** An Elementary Text-book of Botany. 4th edn. Demy 8vo. Pp. 611. 1910. Allen & Unwin. 10s. 6d.
- A Student's Text-book of Botany. 4th edn. Demy 8vo. Pp. 821. 1910. Allen & Unwin. 15s.
- **and Druce, G. C.** The Morisian Herbarium in the possession of the University of Oxford. Cr. 8vo. Pp. 418. 1914. Oxford: Clarendon Press. 15s.
- Warming, E.** A Handbook of Systematic Botany, with a revision of the Fungi, by E. Knoblauch. Translated by M. C. Potter. Demy 8vo. Pp. 620. 1895. Allen & Unwin. 15s.
- Warming, E.** Plant Life: A Text Book of Botany for Schools and Colleges. Translated by M. M. Rehling and E. M. Thomas. Cr. 8vo. Pp. 244. 1911. Allen & Unwin. 5s.
- Westell, W. P., and Cooper, C. S.** The Young Botanist. Cr. 8vo. Pp. 238. 1908. Methuen. 6s.
- Woodhead, T. W.** The Study of Plants. An Introduction to Botany and Plant Ecology. Cr. 8vo. Pp. 440. 1915. Oxford: Clarendon Press. 7s. 6d.

ii. MORPHOLOGY, PHYSIOLOGY, etc.

- Atkins, W. R. G.** Recent Researches in Plant Physiology. Cr. 8vo. Pp. 328. 1916. Pitman. 9s.
- Avebury, Lord.** Flowers, Fruits, and Leaves. Cr. 8vo. Pp. 154. 1908. Macmillan. 4s. 6d.
- A Contribution to our Knowledge of Seedlings. Cr. 8vo. Pp. 295. 1896. Kegan Paul. 7s. 6d.
- On Buds and Stipules. Cr. 8vo. Pp. 268. 1899. Kegan Paul. 7s. 6d.
- Notes on the Life History of British Flowering Plants. 8vo. Pp. 474. 1905. Macmillan. 15s.
- Baines, A. E.** Germination in its Electrical Aspect. A Consecutive Account of the Electro-Physiological Processes concerned in Evolution, from the formation of the Pollen-grain to the completed Structure of the Seedling. Together with some Further Studies in Electro-Physiology. Demy 8vo. Pp. 207. 1921. Routledge. 12s. 6d.
- Bose, Sir J. C.** Plant Response as a Means of Physioblogical Investigation. 8vo. Pp. 822. 1906. Longmans. 21s.
- Researches on Irritability of Plants. 8vo. Pp. 410. 1913. Longmans. 7s. 6d.
- Response in the Living and Non-Living. 2nd imp. 8vo. Pp. 220. 1910. Longmans. 10s. 6d.

- Brenchley, W. E.** Inorganic Plant Poisons and Stimulants. Roy. 8vo. Pp. 120. 1914. Cambridge University Press. 6s.
- Candolle, A. de.** Origin of Cultivated Plants. 3rd imp. Cr. 8vo. Pp. 476. 1909. Kegan Paul. 7s. 6d.
- Cavers, F.** Life Histories of Common Plants. 5th imp. Cr. 8vo. Pp. 580. 1919. University Tutorial Press. 4s. 6d.
- Cox, L. E.** Experimental Plant Physiology for Beginners. Cr. 8vo. Pp. 120. 1915. Longmans. 3s. 6d.
- Darwin, C.** The Effects of Cross- and Self-Fertilisation in the Vegetable Kingdom. 2nd edn. Cr. 8vo. Pp. 487. 1910. Murray. 9s.
- Darwin, Sir F., and Acton, E. H.** Practical Physiology of Plants. 3rd edn. Cr. 8vo. Pp. 359. 1915. Cambridge University Press. 6s.
- De Bary, A.** Comparative Anatomy of the Vegetative Organs of the Phanerogams and Ferns. Translated by F. O. Bower and D. H. Scott. Roy. 8vo. Pp. 676. 1884. Oxford: Clarendon Press. 36s.
- Detmer, W.** Practical Plant Physiology: An Introduction to Original Research for Students and Teachers of Natural Science, Medicine, Agriculture and Forestry. Translated by S. A. Moor. 2nd edn. Demy 8vo. Pp. 555. 1909. Allen and Unwin. 12s.
- Dixon, H. H.** Transpiration and the Ascent of Sap in Plants. 8vo. Pp. 224. 1914. Macmillan. 6s. 6d.
- Ewart, A. J.** On the Physics and Physiology of Protoplasmic Streaming in Plants. Roy. 8vo. Pp. 132. 1903. Oxford: Clarendon Press. 8s. 6d.
- Goebel, K. E.** Organography of Plants, especially of the Archegoniata and Spermatophyta. Translated by I. B. Balfour. 2 Vols. Roy. 8vo. Part 1. General. Pp. 286. 1900. 10s. Part 2. Special. Pp. 94. 1905. 21s. Oxford: Clarendon Press.
- Green, J. R.** An Introduction to Vegetable Physiology. 3rd edn. 8vo. Pp. 492. 1911. Churchill. 12s. 6d.
- A Manual of Botany. Vol. 1. Morphology and Anatomy. 3rd edn. Cr. 8vo. Pp. 407. 1904. Churchill. 8s. 6d.
- Haberlandt, G.** Physiological Plant Anatomy. Translated by M. Drummond. 8vo. Pp. 794. 1914. Macmillan. 31s. 6d.
- Haig, H. A.** The Plant Cell: Its Vital Processes and Modifications. Large Cr. 8vo. Pp. 217. 1910. Griffin. 7s. 6d.
- Heath, F. G.** Nervation of Plants. Cr. 8vo. Pp. 187. 1912. Williams and Norgate. 3s. 6d.
- Henslow, G.** Origin of Floral Structures through Insect and other Agencies. 2nd edn. Cr. 8vo. Pp. 360. 1893. Kegan Paul. 7s. 6d.
- Origin of Plant Structures by Self-Adaptation to the Environment. Cr. 8vo. Pp. 272. 1895. Kegan Paul. 7s. 6d.
- Jost, L.** Lectures on Plant Physiology. Translated by R. J. Harvey-Gibson. Roy. 8vo. Pp. 578. 1907. Supplement incorporating the alterations of the second edition of the German original. Roy. 8vo. Pp. 168. 1913. Oxford: Clarendon Press. 30s.
- Keeble, F. W.** Practical Plant Physiology. 2nd edn. Cr. 8vo. Pp. 250. 1919. Bell. 4s. 6d.
- Plant Animals. Roy. 16mo. Pp. 171. 1912. Cambridge University Press. 2s. 6d.
- Knuth, P.** Handbook of Floral Pollination, based upon H. Muller's Fertilization of Flowers by Insects. Translated by J. R. Ainsworth Davis. 3 Vols. Roy. 8vo. Vol. 1. Historical Development and present stand-point of Flower Pollination. Pp. 402. 1906. 18s. Vol. 2. Observations made in Europe and the Arctic Regions on Species belonging to the natural orders. Ranunculaceæ to Styli-

- diæ. Pp. 712. 1908. 31s. 6d.
Vol. 3. Ditto. Goodenoviæ to
Cycadæ; Systematic list of insect
visitors, with names of plants
visited. Pp. 648. 1909. 28s.
Oxford: Clarendon Press.
- Onslow, M. Wheldale.** The Antho-
cyanin Pigments of Plants. Roy.
8vo. Pp. 330. 1916. Cambridge
University Press. 17s. 6d.
- Pfeffer, W.** Physiology of Plants. A
Treatise upon the Metabolism and
Sources of Energy in Plants. Trans-
lated and edited with Notes by A. J.
Ewart. 2nd edn. 3 vols. Roy.
8vo. Vol. 1. Introduction, Phy-
siological Morphology, Mechanism
of Absorption and Translocations,
Movements of Water, Food of
Plants, etc. Pp. 644. 1900. Vol.
2. Growth, Reproduction, and
Maintenance. Pp. 304. 1903. Vol.
3. Movements, Production of
Light, Heat and Electricity, Sources
and Transformation of Energy. Pp.
460. 1906. Oxford: Clarendon
Press. The 3 Vols. 45s.
- Scott, D. H.** Evolution of Plants.
Fcap. 8vo. Pp. 256. 1919.
Williams and Norgate. 2s. 6d.
- An Introduction to Structural
Botany. 2 Vols. Cr. 8vo. Part 1.
Flowering Plants. 9th edn. Pp.
298. 1917. Part 2. Flowerless
Plants. 8th edn. Pp. 298. 1920.
Black. 6s. each.
- Solereder, H.** Systematic Anatomy of
the Dicotyledons. A handbook for
Laboratories of Pure and Applied
Botany. Translated by L. A.
Boodlee and F. E. Fritsch. Revised
by D. H. Scott. 2 Vols. Roy. 8vo.
Pp. 1202. 1908. Vol. 1. Intro-
duction, Polypetalæ, Gamopetalæ.
Vol. 2. Monochlamydeæ, Addenda,
etc. Oxford: Clarendon Press.
24s. each.
- Timiriæzeff, C. A.** The Life of the
Plant. Translated from the Russian
by A. Chermetteff. 8vo. Pp. 371.
1912. Longmans. 8s.
- III. GEOGRAPHIC DISTRIBUTION.**
- Boulger, P. S.** Plant Geography.
Pott. 8vo. Pp. 186. Dent.
1s. 6d.
- Hardy, M. E.** The Geography of
Plants. Cr. 8vo. Pp. 339. 1920.
Oxford: Clarendon Press. 7s. 6d.
— An Introduction to Plant Geo-
graphy. Cr. 8vo. Pp. 192. 1913.
Oxford: Clarendon Press. 4s.
- Moss, C. E.** The Vegetation of the
Peak District. Demy 8vo. Pp.
246. 1913. Cambridge University
Press. 14s.
- Schimper, A. F. W.** Geography of
Plants. Translated by W. R. Fisher,
revised by P. Groom and I. B.
Balfour. Part 1. The Factors.
Part 2. Formations and Guilds.
Part 3. Zones and Regions—Trop-
ical Climate and Vegetation, Tem-
perate Zones, Arctic Zone. Roy.
8vo. Pp. 870. 1903. Oxford:
Clarendon Press. 63s.
- Warming, E.** Oecology of Plants.
An Introduction to the Study of
Plant Communities. English edn.
by P. Groom and I. B. Balfour.
Roy. 8vo. Pp. 434. 1909. Ox-
ford: Clarendon Press. 15s.
- iv. ALGÆ.**
- Cooke, M. C.** Introduction to Fresh-
Water Algæ: with an Enumeration
of all the British Species. Cr. 8vo.
Pp. 345. 1902. Kegan Paul.
7s. 6d.
- Fryer, A., Evans, A. H., and
Bennett, A.** The Potamogetons
(Pondweeds) of the British Isles.
Descriptions of all the Species,
Varieties, and Hybrids. With 60
Plates. Med. 4to. Pp. 94. 1915.
Coloured, £5 5s. Uncoloured,
£3 15s. Lovell Reeve.
- Gray, S. O.** British Seaweeds. An
introduction to the study of the
Marine Algæ of Great Britain,
Ireland and the Channel Islands.
Cr. 8vo. Pp. 335. 1867. Lovell
Reeve. 10s. 6d.

Botany.

- Harvey, W. H.** *Phycologia Australica. A History of Australian Seaweeds.* 5 Vols. Roy. 8vo. 300 Plates. 1863. Coloured, £6 10s. Uncoloured, £3 3s. Sets of the uncoloured Plates and letterpress, unbound £2 5s. Lovell Reeve.
- *Phycologia Britannica. A History of British Seaweeds.* 4 Vols. Roy. 8vo. 360 Plates. 1871. Coloured, £6 6s. Uncoloured, £3 3s. Sets of the uncoloured Plates and letterpress, unbound, £2 5s. Lovell Reeve.
- Nave, J.** *Collector's Handy-book of Algae, Desmids, Fungi, Lichens, Mosses, etc.* Cr. 8vo. Pp. 210. 1904. Routledge. 4s. 6d.
- West, G. S.** *Algae.* Vol. 1. Myxophyceæ, Peridinieæ, Chlorophyceæ, together with a brief summary of the Occurrence and Distribution of Freshwater Algae. Roy. 8vo. Pp. 486. 1919. Cambridge University Press. 30s.
- v. FUNGI.**
- Badham, M. D.** *The Esculent Funguses of England. An Account of their Classical History, Uses, Characters, Development, Structure, Nutritions, Properties, Modes of Cooking and Preserving, etc.* 2nd edn. 8vo. Pp. 160. 1863. Lovell Reeve. 12s.
- Berkeley, M. J.** *Outlines of British Fungology.* Containing a description of the larger British Fungi, together with a list of the more minute species. With 24 Plates, illustrating over 170 species. 8vo. Pp. 459. 1860. Coloured, 18s. Uncoloured, 12s. Supplement by W. G. Smith. 6s. Lovell Reeve.
- Buller, A. H. R.** *Researches on Fungi: An Account of the Production, Liberation and Dispersion of the Spores of Hymenomycetes treated Botanically and Physically.* Roy. 8vo. Pp. 300. 1909. Longmans. 12s. 6d.
- Cooke, M. C.** *Edible and Poisonous Mushrooms: What to Eat and What to Avoid.* Cr. 8vo. Pp. 126. 1902. S.P.C.K. 4s.
- *Fungi: their Nature, Influences, Uses, etc.* 6th edn. Cr. 8vo. Pp. 311. 1906. Kegan Paul. 7s. 6d.
- *Comparative Morphology and Biology of Fungi, Mycetozoa and Bacteria.* Translated by H. E. F. Garnsey. Revised by I. B. Balfour. Roy. 8vo. Pp. 546. 1887. Oxford: Clarendon Press. 30s.
- Grove, W. B.** *British Rust Fungi (Uredinales).* Demy 8vo. Pp. 424. 1913. Cambridge University Press. 17s.
- Massee, G.** *British Fungi. Phycomycetes and Ustilaginæ.* With 8 Plates. Cr. 8vo. Pp. 247. 1891. Lovell Reeve. 7s. 6d.
- *British Fungi.* With 40 Coloured Plates. 8vo. Pp. 351. Routledge. 10s. 6d.
- *European Fungus, Flora Agaricaceæ.* Cr. 8vo. Pp. 280. 1902. Duckworth. 6s.
- Phillips, W.** *Manual of British Discomycetes: with Descriptions of all the Species of Fungi hitherto found in Britain included in the Family, and Illustrations of the Genera.* 2nd edn. Cr. 8vo. Pp. 474. 1893. Kegan Paul. 7s. 6d.
- Swanton, E. W.** *Fungi and How to Know Them. An Introduction to Mycology.* Cr. 8vo. Pp. 222. 1909. Methuen. 10s. 6d.
- vi. FERNS AND MOSSES.**
- Bagnall, J. E.** *Hand-book of Mosses, with an Account of their Structure, Classification, Geographical Distribution and Habits.* 6th edn. Cr. 8vo. Pp. 98. 1910. Allen & Unwin. 1s. 6d.
- Bastin, H.** *British Ferns and How to Know Them.* Fcap. 8vo. Pp. 144. 1917. Methuen. 2s.

- Berkeley, M. J.** Handbook of British Mosses. Containing a description of genera and species, with their geographical distribution; collection and systematic arrangement. With 24 plates, illustrating over 150 species. 2nd edn. 8vo. Pp. 324. 1805. Coloured, 18s. Uncoloured, 12s. Lovell Reeve.
- Druery, C. T.** British Ferns and their Varieties. 40 coloured Plates. 8vo. Pp. 467. N.D. Routledge. 10s. 6d.
- Hobkirk, C. P.** Synopsis of British Mosses. Containing Descriptions of the Genera and Species, with localities of the rarer ones. 2nd edn. Cr. 8vo. Pp. 240. 1884. Lovell Reeve. 7s. 6d.
- Hooker, Sir W. J.** The British Ferns. Figures and Descriptions, with Analysis of the Fructification and Venation. 66 plates. Roy. 8vo. 1861. Coloured, £1 16s. Uncoloured, 15s. Lovell Reeve.
- Garden Ferns. Figures and Descriptions of Exotic Ferns adapted for Cultivation. Roy. 8vo. 64 Plates. 1862. Coloured, £1 16s. Uncoloured, 15s. Lovell Reeve.
- Plues, M.** British Ferns, including Lycopods, and Equiseta. With 16 coloured Plates and Woodcuts. Cr. 8vo. Pp. 281. Lovell Reeve. 10s. 6d.
- Russell, T. H.** Mosses and Liverworts. An Introduction to their study, with hints as to their collection and preservation. Cr. 8vo. Pp. 213. 1908. Sampson Low. 4s. 6d.
- Sim, T. R.** The Ferns of South Africa. 2nd edn. Demy 8vo. Pp. 394. 1916. Cambridge University Press. 25s.
- Step, E.** Wayside and Woodland Ferns. A Pocket Guide to the British Ferns, Horsetails, and Club Mosses. Pocket size. Pp. 143. 1908. Warne. 8s. 6d.
- vii. FLORA.
- Arber, E. A. N.** Devonian Floras: A Study of the Origin of Cormophyta. Demy 8vo. Pp. 114. 1921. Cambridge University Press. 17s. 6d.
- Baker, J. G.** Flora of Mauritius and the Seychelles. 8vo. Pp. 605. 1877. Lovell Reeve. 42s.
- Baker, R. T., and Smith, H. G.** A Research on the Pines of Australia. Roy. 4to. Pp. 472. 1910. Routledge. 30s.
- Bentham, G., and Hooker, Sir J. D.** Handbook of the British Flora. A Description of the Flowering Plants and Ferns indigenous to or naturalised in the British Isles. 6th edn. Cr. 8vo. Pp. 664. 1918. Lovell Reeve. 12s.
- Illustrations of the British Flora, forming an Illustrated Companion to Bentham's "Handbook," and other British Floras. 1,315 Wood engravings by W. H. Fitch and W. G. Smith. 4th edn. Cr. 8vo. Pp. 354. 1910. Lovell Reeve. 12s.
- and Mueller, F. Flora Australiensis. A Description of the Plants of the Australian Territory. 7 vols. 8vo. 1863-1878. Lovell Reeve. 42s. per. vol.
- Carter, H. G.** Genera of British Plants. Cr. 8vo. Pp. 140. 1913. Cambridge University Press. 6s.
- Druce, G. C.** The Flora of Berkshire. Cr. 8vo. Pp. 754. 1897. Oxford: Clarendon Press. 16s.
- List of British Plants, found either as natives or growing in a wild state in the British Isles. Cr. 8vo. Pp. 120. 1908. Oxford: Clarendon Press. 3s.
- Gregory, E. S.** British Violets. Demy 8vo. Pp. 131. 1912. Heffer. 6s.
- Grove, W. B.** A Pocket Synopsis of the Families of British Flowering Plants (based upon the System of Engler). Fcap. 8vo. Pp. 56. 1915. Longmans. 1s. 3d.
- Harvey, W. H., Sonder, O. W., and Thiselton-Dyer, Sir W. T.** Flora Capensis. A Systematic Description of the Plants of Cape Colony, Caffraria and Port Natal. 9 Vols. 8vo. 1894-1900. 42s., each, except Vol. IV. Section 1. 60s. 3 Additional Parts now ready. 15s., 15s., 11s. 3d. Lovell Reeve.

Hayward, W. R. The Botanist's Pocket Book: containing the chief characteristics of British Plants; with botanical name, common name, soil and situation, Colour, Growth, and time of flowering of every Plant, arranged under its own order. 15th edn. Revised by G. C. Druce. Fcap. 8vo. Pp. 335. 1917. Bell. 5s.

Hooker, Sir J. D. Flora of British India. 7 Vols. 8vo. 1872-1897. Lovell Reeve. 42s. per vol.

—Handbook of the New Zealand Flora. A systematic description of the Native Plants of New Zealand and the Chatham, Kermadec, Auckland, Campbell and Macquarie Islands. 8vo. Pp. 866. 1864-1867. Lovell Reeve. 42s.

—The Student's Flora of the British Isles. 3rd edn. Globe 8vo. Pp. 588. 1884. Macmillan. 10s. 6d.

Jackson, B. D. Index Kewensis; an enumeration of the Genera and Species of Flowering Plants from the time of Linnaeus to the year 1885, together with their authors' names, the works in which they were first published, their native countries and their synonyms. 2 Vols. Roy. 4to. 1895. Vol. 1. Pp. 1268. Vol. 2. Pp. 1300. With 4 Supplements 1886-1910. Oxford: Clarendon Press. £16 16s.

Johns, C. A. Flowers of the Field. Edited by C. Elliott. 8th edn. With Chapters on Grasses, also Glossary and English and Latin Indexes. 8th imp. 8vo. Pp. 398 and 96 Plates. Routledge. 12s. 6d.

—Flowers of the Field. 33rd edn. Revised by G. S. Boulger. Large Cr. 8vo. Pp. 612 and 64 Plates. 1911. S.P.C.K. 7s. 6d.

Moss, C. E., and others. The Cambridge British Flora. Illustrated from Drawings by E. W. Hunnybun. To be completed in about 10 Vols. Imp. 4to. Vol. 2. in 2 Parts. Pt. 1. Text. Pp. 228. Pt. 2. 206 Plates. £3, or in 1 Volume, £2 10s. Vol. 3 in 2 Parts.

Pt. 1. Text. Pp. 216. Pt. 2. 191 Plates. £6 15s., or in 1 Volume (plates interspersed with text), £7 7s. Cambridge University Press.

Oliver, D., Thiselton-Dyer, Sir W. T., and Prain, Sir D. Flora of Tropical Africa (Upper Guinea, North Central including the Sahara, Nile Land, Lower Guinea, South Central, and Mozambique). 10 Vols. ready. 8vo. 1868-1920. 42s. each. Vol. VI. Section I. 60s. 3 Additional Parts now ready. 15s. each. Lovell Reeve.

Plues, M. British Grasses. With 16 Coloured Plates and 100 Woodcuts. Cr. 8vo. Pp. 307. Lovell Reeve. 10s. 6d.

Pratt, A. The Flowering Plants, Grasses, Sedges, and Ferns of Great Britain. 4 Vols. Med. 8vo. Pp. 266., 279., 258., 215 and 80 Plates in each Vol. Warne. 10s. 6d. each Vol.

Ridley, H. N. Materials for a Flora of the Malayan Peninsula. 3 Parts. 8vo. 1907. Lovell Reeve. 30s.

Rogers, W. M. A Handbook of British Rubi. Demy 8vo. Pp. 120. 1900. Duckworth. 5s.

Step, E. Favourite Flowers of Garden and Greenhouse. 4 Vols. Med. 8vo. 1896. Warne. 60s.

—Wayside and Woodland Blossoms. A Pocket Guide to British Wild Flowers. 2 Vols. Pocket size. Pp. 189., 187. Warne. 8s. 6d. each Vol.

—Wild Flowers—Month by Month —In their Natural Haunts. 2 Vols. Med. 8vo. Pp. 206., 206. 1905. Warne. 15s.

Strachey, Sir, R., and Duthie, J. F. Catalogue of the Plants of Kumaon and the adjacent portions of Garhwal and Tibet. 8vo. Pp. 276. 1906. Lovell Reeve. 5s.

Thompson, H. S. Flowering Plants of the Riviera. A Descriptive Account of 1,800 of the more interesting Species. Cr. 8vo. Pp. 280. 1914. Longmans. 12s.

Botany.

- Townsend, F.** Flora of Hampshire, including the Isle of Wight, with localities of the less common species. 2nd edn. 8vo. Pp. 696. 1904. Lovell Reeve. 18s.
- Ward, H. M.** Grasses: a Handbook for use in the Field and Laboratory. Cr. 8vo. Pp. 198. 1908. Cambridge University Press. 7s.
- Watts, W. M.** A School Flora. For the use of Elementary Botanical Classes. Cr. 8vo. Pp. 216. 1919. Longmans. 4s. 6d.
- White, J. W.** The Flora of Bristol. An Account of all the Flowering Plants, Ferns, and their Allies that have at any time been found in the neighbourhood of Bristol. Demy 8vo. Pp. 700. 1912. John Wright. 12s. 6d.
- Willis, J. C.** A Dictionary of the Flowering Plants and Ferns. 4th edn. Cr. 8vo. Pp. 780. 1919. Cambridge University Press. 22s.

FORESTRY.

- "Acorn."** English Timber and its Economical Conversion. A Handbook for Home Timber Merchants, Manufacturers and Growers. 2nd edn. Cr. 8vo. Pp. 208. Rider. 3s. 6d.
- Baterden, J. R.** Timber. Ex. Cr. 8vo. Pp. 356. 1908. Constable. 7s. 6d.
- Bean, W. J.** Trees and Shrubs Hardy in the British Isles. 2 Vols. Med. 8vo. Pp. 688., 736. 1919. Murray. 48s.
- Beddoes, W. F.** The Management of English Woodlands. Demy 8vo. Pp. 191. 1919. Simpkin, Marshall. 7s. 6d.
- Bousfield, G.** The Timber Merchant and Builders' Vade Mecum. Cr. 8vo. Pp. 120. n.d. Wm. Rider. 5s.
- Boyd, J.** Afforestation. Cr. 8vo. Pp. 40. 1918. Chambers. 1s.
- Brandis, Sir D.** Indian Trees: An Account of Trees, Shrubs, Woody Climbers, Bamboos, and Palms, Indigenous or Commonly Cultivated in the British Indian Empire. 2nd edn. Demy 8vo. Pp. 303. 1920. Constable. 40s.
- Broun, A. F.** Sylviculture in the Tropics. 8vo. Pp. 328. 1912. Macmillan. 10s. 6d.
- Bullock, W.** Timber. From the Forest to its Use in Commerce. Cr. 8vo. Pp. 158. 1915. Pitman. 3s.
- Charpentier, P.** Timber. A Comprehensive Study of Wood in all its Aspects, Commercial and Botanical. Translated from the French. Roy. 8vo. Pp. 437. 1902. Scott, Greenwood. 14s. 6d.
- Coltman-Rogers, C.** Conifers and their Characteristics. Demy 8vo. Pp. 333. 1920. Murray. 21s.
- Curtis, C. E.** Practical Forestry: and its Bearing on the Improvement of Estates. 4th edn. Cr. 8vo. Pp. 156. 1908. Crosby Lockwood. 5s.
- Forbes, A. C.** The Development of British Forestry. Demy 8vo. Pp. 286. 1910. Arnold. 10s. 6d.
- English Estate Forestry. 2nd edn. Demy 8vo. Pp. 342. 1906. Arnold. 12s. 6d.
- Handbook of Forestry.** Pocket size. Pp. 216. 1920. Wm. Rider. 4s. 6d.
- Hanson, C. O.** Forestry for Woodmen. Cr. 8vo. Pp. 222. 1911. Oxford: Clarendon Press. 5s.
- Henry, A.** Forests, Woods, and Trees in Relation to Hygiene. Demy 8vo. Pp. 326. 1919. Constable. 18s.
- Howard, A. L.** A Manual of the Timbers of the World. Their Characteristics and Uses. With an Account of the Artificial Seasoning of Timber, by S. Fitzgerald. 8vo. Pp. 462. 1920. Macmillan. 30s.
- Jackson, H.** A Short Manual of Forest Management. Demy 8vo. Pp. 80. 1921. Cambridge University Press. 7s.
- Johns, C. A.** British Trees and Shrubs. Revised, edited and annotated by E. T. Cook. 8vo. Pp. 301. Routledge. 10s. 6d.
- The Forest Trees of Britain. 10th edn. revised by G. S. Boulger. Post 8vo. Pp. 448. 1920. S.P.C.K. 7s. 6d.

- Keen, G. R.** *Aeroplane Timbers: Their Structure, Formation, and Mechanical and Commercial Properties.* Demy 8vo. Pp. 88. 1919. Wm. Rider. 6s.
- Maw, P. T.** *Forestry: complete Yield Tables for British Woodlands and the Finance of British Forestry.* Roy. Oblong 8vo. Pp. 120. 1912. Crosby Lockwood 7s. 6d.
- *The Practice of Forestry: concerning also the Financial Aspect of Afforestation.* Demy 8vo. Pp. 501. 1912. Fisher Unwin. 21s.
- Newsham, J. C.** *The Propagation and Pruning of Hardy Trees, Shrubs, and Miscellaneous Plants; with notes on Manuring and Planting.* Demy 8vo. Pp. 238. 1913. Crosby Lockwood. 7s. 6d.
- Nisbet, J.** *The Forester. A Practical Treatise on British Forestry and Arboriculture, for Landowners, Land Agents, and Foresters.* 2 Vol. Roy. 8vo. Pp. 526., 657. 1905. Blackwood. 42s.
- *The Elements of British Forestry. A Handbook for Students of Forestry.* Cr. 8vo. Pp. 357. 1911. Blackwood. 6s. 6d.
- *British Forest Trees and their Sylvicultural Characteristics and Treatment.* Cr. 8vo. Pp. 368. 1893. Macmillan. 6s.
- Shaw, N.** *Chinese Forest Trees and Timber Supply.* Demy 8vo. Pp. 349. 1914. Fisher Unwin. 10s. 6d.
- Shipping Marks on Timber.** embracing Sawn and Planed Wood, Joinery and other Hard and Soft Woods, exported from Sweden, Norway, Finland, Russia, Canada, the United States, etc. 4to. Pp. 148. 1920. Wm. Rider. 15s.
- Stebbing, E. P.** *Commercial Forestry in Britain: its Decline and Revival.* Cr. 8vo. Pp. 186. 1919. Murray. 6s.
- *British Forestry. Its Present Position and Outlook after the War.* Cr. 8vo. Pp. 257. 1919. Murray. 6s.
- Step, E.** *Wayside and Woodland Trees. A Pocket Guide to the British Sylva. Pocket size.* Pp. 182. Warne. 8s. 6d.
- Stevenson, W.** *The Trees of Commerce. A Practical Manual.* Demy 8vo. Pp. 274. 1920. Wm. Rider. 5s.
- Stone, H.** *A Guide to the Identification of our more useful Timbers. A Manual for the use of Students of Forestry.* Demy 8vo. Pp. 60. 1920. Cambridge University Press. 7s. 6d.
- *The Timbers of Commerce and Their Identification. A Complete Guide to the Identification of 345 distinct varieties of Timber.* Demy 8vo. Pp. 349. 1918. Wm. Rider. 8s. 6d.
- Tiffany, F.** *The Timber Merchants' Handbook. A Practical Guide to the Measurements and Uses of Wood.* Cr. 8vo. Pp. 176. N.D. Wm. Rider. 5s.
- Unwin, A. H.** *West African Forests and Forestry.* Super Roy. 8vo. Pp. 528. 1920. Fisher Unwin. 63s.
- Wallis-Tayler, A. J.** *The Preservation of Wood.* Demy 8vo. Pp. 340. N.D. Wm. Rider. 10s. 6d.
- Ward, H. M.** *Trees: a Handbook of Forest Botany for the Woodlands and the Laboratory.* 5 Vols. Cr. 8vo. Vol. 1. Buds and Twigs. Pp. 282. 1910. 5s. 6d. Vols. 2 to 5. (out of print). Cambridge University Press.
- *Timber and some of its Diseases.* Cr. 8vo. Pp. 304. 1909. Macmillan. 7s.
- Webster, A. D.** *Practical Forestry. A Handbook on the Rearing and Growth of Trees for Profit and Ornament.* Demy 8vo. Pp. 318. 1917. Wm. Rider. 7s. 6d.
- *Town Planting, and the Trees, Shrubs, etc., best adapted for resisting Smoke.* Cr. 8vo. Pp. 211. 1910. Routledge. 4s. 6d.

Forestry.

- Webster, A. D.** Coniferous Trees. A Concise Description of each Species and Variety, with the most recently approved Nomenclature, list of Synonyms, and best Methods of Cultivation. Demy 8vo. Pp. 318. 1918. Constable. 21s.
- Tree Wounds and Diseases: their Prevention and Treatment. Demy 8vo. Pp. 215. 1916. Williams and Norgate. 7s. 6d.
- National Afforestation. Large Cr. 8vo. Pp. 160. 1919. Fisher Unwin. 8s. 6d.
- Seaside Planting: For Shelter, Ornament and Profit. Cr. 4to. Pp. 156. 1918. Fisher Unwin. 18s.
- Webster, A. D.** Firewoods. Their Production and Fuel Values. Cr. 4to. Pp. 95. 1919. Fisher Unwin. 12s. 6d.
- Hardy Ornamental Flowering Trees, and Shrubs. Small Demy 8vo. Pp. 233. 1908. Murray. 5s.
- Whellens, W. H.** Forestry Work. 2nd imp. Demy 8vo. Pp. 286. 1919. Fisher Unwin. 8s. 6d.
- Winn, W.** Timbers and Their Uses. 8vo. Pp. 335. 1919. Routledge. 10s. 6d.

AGRICULTURE.

1. GENERAL.

- Andrew, R. C.** A Farmer's Handbook. A Manual for Students and Beginners. Cr. 8vo. Pp. 142. 1920. Bell. 6s.
- Bosworth, G. F.** Agriculture and the Land. Cr. 8vo. Pp. 104. 1917. Cambridge University Press. 2s.
- Dudgeon, G. C.** The Agricultural and Forest Products of British West Africa. Demy 8vo. Pp. 170. 1911. Murray. 6s.
- Encyclopædia of the Farm**, by Eminent Agricultural Authorities. 2 Vols. Roy. 8vo. Pp. 845., 827. N.D. W. Green. 30s.
- Farmer and Stockbreeder's Year Book**, 1921. Roy. 8vo. Pp. 368. Macdonald. 3s. 6d.
- Fream, W.** Elements of Agriculture. A Text-book prepared under the authority of the Royal Agricultural Society of England. 12th edn. Edited by J. R. Ainsworth-Davis. Cr. 8vo. Pp. 700. 1920. Murray. 7s. 6d.
- Grasby, W. C.** Principles of Australian Agriculture. Cr. 8vo. Pp. 312. 1912. Macmillan. 5s.
- Green, F. E.** First Advice to Would-be Farmers. Cr. 8vo. Pp. 190. 1919. *Country Life*. 5s.
- Haggard, Sir R.** A Farmer's Year: being his Commonplace Book for 1898. Cr. 8vo. Pp. 512. 1909. Longmans. 6s. 6d.
- Rural Denmark and Its Lessons. Cr. 8vo. Pp. 350. 1917. Longmans. 6s.
- Hall, Sir A. D.** Agriculture After the War. Cr. 8vo. Pp. 137. 1917. Murray. 5s.
- A Pilgrimage of British Farming, 1910-1912. Large Cr. 8vo. Pp. 452. 1914. Murray. 7s. 6d.
- Lloyd, E. W.** Hints to Farm Pupils. Cr. 8vo. Pp. 112. 1919. Murray. 2s. 6d.
- McConnell, P.** A Note-Book of Agricultural Facts and Figures for Farmers and Farm Students. 9th edn. Fcap. 8vo. Pp. 550. 1919. Crosby Lockwood. 15s.
- Mukerji, N. G.** Handbook of Indian Agriculture. 3rd edn. Demy 8vo. Pp. 634. 1915. Thacker. 15s.
- Newsham, J. C.** Farming Made Easy. Cr. 8vo. Pp. 190. 1918. Pearson. 3s. 6d.
- Nicholls, H. A. A.** A Text-Book of Tropical Agriculture. Cr. 8vo. Pp. 334. 1919. Macmillan. 7s.
- Orr, J.** Agriculture in Berkshire. A Survey. Demy 8vo. Pp. 218. 1918. Oxford: Clarendon Press. 8s. 6d.
- Agriculture in Oxfordshire. A Survey, with a chapter on Soils by C. G. T. Morison. Demy 8vo. Pp. 252. 1916. Oxford: Clarendon Press. 8s. 6d.
- Pawson, H. C.** The Study of Agriculture, or Hints for Agricultural Students. Cr. 8vo. Pp. 124. Pp. 124. 1921. Vinton. 5s.
- Somerville, W.** Agriculture. Fcap. 8vo. Pp. 256. 1911. Williams and Norgate. 2s. 6d.
- Stephens, H.** The Book of the Farm. 5th edn. Revised and largely rewritten by J. Macdonald. 3 Vols. Roy. 8vo. 1908. Vol. I. Land and Its Equipment. Pp. 569. Vol. II. Farm Crops. Pp. 573. Vol. III. Farm Live Stock. Pp. 569. Blackwood. 21s. each.

Agriculture.

- Tanner, H.** *Elementary Lessons in the Science of Agricultural Practice.* Fcap. 8vo. Pp. 316. 1893. Macmillan. 3s. 6d.
- Watts, F., and Freeman, W. G.** *Nature Teaching. Based upon the General Principles of Agriculture.* Large Cr. 8vo. Pp. 190. 1913. Murray. 4s.
- Webb, H. J.** *Agriculture. A Manual for Advanced Science Students.* Cr. 8vo. Pp. 680. 1914. Longmans. 9s.
- *Elementary Agriculture.* Cr. 8vo. Pp. 204. 1919. Longmans. 4s.
- Weigall, A. G., and Wrey, C. A.** *Large State Farm. A Business and Educational Undertaking.* Cr. 8vo. Pp. 82. 1919. Murray. 2s. 6d.
- Wibberley, T.** *Farming on Factory Lines; or Continuous Cropping for the Large Farmer.* 2nd edn. Cr. 8vo. Pp. 267. 1919. Pearson. 6s.
- Williams, M. M.** *Farm Work throughout the Year.* Cr. 8vo. Pp. 128. 1921. Routledge. 3s. 6d.
- Willis, J. C.** *Agriculture in the Tropics.* 2nd edn. Demy 8vo. Pp. 237. 1914. Cambridge University Press. 11s.
- Wolff, H. W.** *The Future of our Agriculture.* Demy 8vo. Pp. 510. 1918. King. 12s. 6d.
- Wrightson, J., and Newsham, J. C.** *Agriculture: Theoretical and Practical.* 2nd edn. Med. 8vo. Pp. 668. 1921. Crosby Lockwood. 12s. 6d.
- ii. BOTANY: INCLUDING
POISONOUS PLANTS, PLANT
DISEASES AND PESTS.**
- Armstrong, S. F.** *British Grasses and their Employment in Agriculture.* Demy 8vo. Pp. 208. 1917. Cambridge University Press. 7s.
- Brenchley, W. E.** *Weeds of Farm Land.* Demy 8vo. Pp. 249. 1920. Longmans. 12s. 6d.
- Bruck, W. F.** *Plant Diseases.* Translated from the German, and edited by J. R. Ainsworth-Davis. Fcap. 8vo. Pp. 142. 1912. Blackie. 2s. 6d.
- Butler, E. J.** *Fungi and Disease in Plants. An Introduction to the Diseases of Field and Plantation Crops, especially those of India and the East.* Roy. 8vo. 1918. Thacker. 25s.
- Cook, M. T.** *The Diseases of Tropical Plants.* 8vo. Pp. 332. 1913. Macmillan. 10s. 6d.
- Duncan, F. M.** *Insect Pests and Plant Diseases in the Vegetable and Fruit Garden.* Cr. 8vo. Pp. 95. 1919. Constable. 3s. 6d.
- Eriksson, J.** *Fungoid Diseases of Agricultural Plants.* Demy 8vo. Pp. 230. 1912. Baillière. 8s. 6d.
- Fryer, P. J.** *Insect Pests and Fungus Diseases of Fruit and Hops. A Complete Manual for Growers.* Med. 8vo. Pp. 528. 1920. Cambridge University Press. 45s.
- Gunther, R. T.** *Report on Agricultural Damage by Vermin and Birds in the Counties of Norfolk and Oxfordshire in 1916.* Demy 8vo. Pp. 92. 1917. Oxford University Press. 2s. 6d.
- Henslow, G.** *Poisonous Plants in Field and Garden.* Post 8vo. Pp. 189. 1901. S.P.C.K. 2s. 6d.
- Long, H. C.** *Plants Poisonous to Live Stock.* Roy. 8vo. Pp. 128. 1917. Cambridge University Press. 6s. 6d.
- — **and Percival, J.** *Common Weeds of the Farm and Garden.* Large Post 8vo. Pp. 451. 1910. Murray. 6s.
- Massee, G.** *Diseases of Cultivated Plants and Trees.* 2nd edn. Cr. 8vo. Pp. 614. 1915. Duckworth. 7s. 6d.
- Milburn, T.** *Fungoid Diseases of Farm and Garden Crops.* Cr. 8vo. Pp. 180. 1915. Longmans. 2s. 6d.

Agriculture.

- Percival, J.** *Agricultural Botany: Theoretical and Practical.* 6th edn. Large Cr. 8vo. Pp. 853. 1921. Duckworth. 18s.
- Petherbridge, F. R.** *Fungoid and Insect Pests of the Farm.* Cr. 8vo. Pp. 182. 1916. Cambridge University Press. 5s. 6d.
- Potter, M. C. A.** *Elementary Text-book of Agricultural Botany.* 5th edn. Cr. 8vo. Pp. 312. 1919. Methuen. 6s.
- Tubeuf, C. von.** *Diseases of Plants induced by Cryptogamic Parasites.* Translated from the German by W. J. Smith. Roy. 8vo. Pp. 614. 1897. Longmans. 21s.
- Ward, H. M.** *Disease in Plants.* Cr. 8vo. Pp. 326. 1901. Macmillan. 8s. 6d.
- Watson, J.** (edited by). *Farm Vermin. Helpful and Hurtful.* Cr. 8vo. Pp. 80. N.D. Wm. Rider. 2s. 6d.
- Weiss, F. E., Imms, A. D., and Robinson, W.** *Plants in Health and Disease.* Cr. 8vo. Pp. 151. 1916. Longmans. 1s. 6d.
- III. CHEMISTRY.**
- Addyman, F. T.** *Agricultural Analysis. A Manual of Quantitative Analysis for Students of Agriculture.* Cr. 8vo. Pp. 230. 1916. Longmans. 6s.
- Adie, R. H., and Wood, J. B.** *Agricultural Chemistry.* 2 Vols. Cr. 8vo. Pp. 289., 237. Kegan Paul. 5s. each Vol.
- Auld, S. J. M., and Edwardes-Ker, D. R.** *Practical Agricultural Chemistry.* Cr. 8vo. Pp. 243. 1918. Murray. 10s. 6d.
- Coleman, J. B., and Addyman, F. T.** *Practical Agricultural Chemistry.* Cr. 8vo. Pp. 100. 1919. Longmans. 3s. 6d.
- Dodgson, J. W., and Murray, J. A.** *A Foundation Course in Chemistry for Students of Agriculture and Technology.* 2nd edn. Cr. 8vo. Pp. 253. 1920. Hodder and Stoughton. 6s. 6d.
- Dymond, T. S.** *An Experimental Course of Chemistry for Agricultural Students.* 6th imp. Cr. 8vo. Pp. 192. 1916. Arnold. 3s.
- Hall, Sir A. D., and Russell, E. J.** *The Book of the Rothamsted Experiments. Issued with the Authority of the Lawes Agricultural Trust Committee.* 2nd edn. Med. 8vo. Pp. 332. 1919. Murray. 12s.
- Ingle, H.** *Elementary Agricultural Chemistry. For Junior Agricultural Students and Farmers.* 3rd edn. Large Cr. 8vo. Pp. 259. 1920. Griffin. 5s.
- *A Manual of Agricultural Chemistry.* 4th edn. Demy 8vo. Pp. 440. 1920. Scott, Greenwood. 15s.
- Johnston, J. F. W.** *Elements of Agricultural Chemistry.* 21st edn. revised by C. A. Cameron and C. M. Aikman. Cr. 8vo. Pp. 512. 1912. Blackwood. 6s. 6d.
- Mercier, C.** *A Manual of the Electro Chemical Treatment of Seeds.* Cr. 8vo. Pp. 142. 1919. University of London Press. 3s. 6d.
- Newman, L. F., and Neville, H. A. D.** *A Course of Practical Chemistry for Agricultural Students.* 2 Vols. Demy 8vo. Vol. 1. Pp. 235. 1920. 10s. 6d. Vol. 2. Pt. 1. Pp. 122. 1919. 5s. Cambridge University Press.
- Robertson, F. D. S.** *Practical Agricultural Chemistry. A Manual of Qualitative and Quantitative Analysis for Agricultural Students and Analysts.* Large Cr. 8vo. Pp. 220. 1907. Baillière. 8s. 6d.
- Wood, T. B.** *The Chemistry of Crop Production.* Cr. 8vo. Pp. 193. 1920. University Tutorial Press. 5s. 6d.
- Woodhead, S. A.** *Elementary Chemistry of Agriculture.* Gl. 8vo. Pp. 196. 1919. Macmillan. 8s. 6d.

Agriculture.

iv. GEOLOGY.

Marr, J. E. *Agricultural Geology.* Cr. 8vo. Pp. 330. 1903. Methuen. 7s. 6d.

Rastall, R. H. *Agricultural Geology.* Demy 8vo. Pp. 342. 1916. Cambridge University Press. 12s.

v. ZOOLOGY.

Bos, J. R. *Agricultural Zoology.* Translated by J. R. Ainsworth-Davis. 3rd edn. Cr. 8vo. Pp. 332. 1904. Methuen. 5s.

Theobald, F. V. *A Text-book of Agricultural Zoology.* 3rd edn. Cr. 8vo. Pp. 571. 1919. Blackwood. 10s. 6d.

vi. BACTERIOLOGY.

Lohnis, F. *Laboratory Methods in Agricultural Bacteriology.* Translated by W. Stevenson and J. H. Smith. Cr. 8vo. Pp. 147. 1913. Griffin. 5s.

Percival, J. *Agricultural Bacteriology: Theoretical and Practical.* 2nd edn. Large Cr. 8vo. Pp. 418. 1920. Duckworth. 12s. 6d.

vii. ECONOMICS.

Agriculturist's Calculator, The. A series of 46 Tables for Land Measuring, Draining, Manuring, Planting, Weight of Hay and Cattle by Measurement, Building, etc. Cr. 8vo. Pp. 591. N.D. Blackie. 9s.

Ashby, A. W. *Allotments and Small Holdings in Oxfordshire. A Survey.* Demy 8vo. Pp. 198. 1917. Oxford: Clarendon Press. 5s.

Bright, T. *Agricultural Valuer's Assistant. A Practical Handbook.* 5th edn. Cr. 8vo. Pp. 320. 1910. Crosby Lockwood. 7s. 6d.

— *Agricultural Surveyor and Estate Agent's Handbook of Practical Rules, Formulæ, Tables and Data.* 2nd edn. Fcap. 8vo. Pp. 464. 1911. Crosby Lockwood. 7s. 6d.

British Agriculture: The Nation's Opportunity. Being the Minority Report of the Departmental Committee of the Employment of Sailors and Soldiers on the Land, by E. G. Strutt, L. Scott, G. H. Roberts, and others. Cr. 8vo. Pp. 168. 1917. Murray. 3s. 6d.

Cullyer, J. *Tables for Measuring and Manuring Land, and Thatcher's Work.* 19th imp. 18mo. Pp. 150. Pitman. 3s.

Curtis, C. E., and Gordon, R. A. *A Practical Handbook of Agricultural Tenancies.* Demy 8vo. Pp. 340. 1910. Crosby Lockwood. 10s. 6d.

Faber, H. *Co-operation in Danish Agriculture.* 8vo. Pp. 198. 1918. Longmans. 9s.

Gordon, L. S. *Co-operation for Farmers.* Cr. 8vo. Pp. 247. 1918. Williams and Norgate. 6s.

Henderson, R. *The Young Estate Manager's Guide.* Cr. 8vo. Pp. 292. 1898. Blackwood. 7s. 6d.

— *The Estate Manager.* 8vo. Pp. 563. 1910. W. Green. 15s.

Inwood's Tables for Purchasing Estates and for the Valuation of Properties. 30th edn. Revised by W. Schooling. Demy 8vo. Pp. 366. 1920. Crosby Lockwood. 8s. 6d.

Long, J. *The Small Farm and Its Management.* 2nd edn. Cr. 8vo. Pp. 346. 1920. Murray. 7s. 6d.

Newsham, J. C., and Philpott, T. V. *Agricultural Arithmetic: For Estate Agents, Farmers, etc.* Cr. 8vo. Pp. 264. 1913. Crosby Lockwood. 4s. 6d.

Orwin, C. S. *Farm Accounts.* New edn. in preparation. Cambridge University Press.

Rogers, A. G. L. *The Business Side of Agriculture.* Cr. 8vo. Pp. 163. 1904. Methuen. 5s.

Agriculture.

Ruston, A. G. Rural Arithmetic. Including Agricultural Measurements and Calculations and Business Transactions of the Farm. Cr. 8vo. Pp. 451. 1916. University Tutorial Press. 5s.

Slater, A. Estate Economics. Demy 8vo. Pp. 278. 1917. Constable. 10s.

Tomkinson, C. W. State Help for Agriculture. Cr. 8vo. Pp. 189. 1917. Fisher Unwin. 3s. 6d.

Wolff, H. W. Co-operation in Agriculture. 2nd imp. Cr. 8vo. Pp. 378. 1914. King. 7s. 6d.

viii. ENGINEERING.

Brown, E. T. Farm Tractors. A Practical Handbook on the Selection and Management of a Tractor. Cr. 8vo. Pp. 160. 1920. Pearson. 3s. 6d.

Clayton, C. H. J. Land Drainage: from Field to Sea. Cr. 8vo. Pp. 204. 1919. *Country Life*. 6s.

Cleghorne, W. S. H. Farm Buildings and Building Construction in South Africa. 8vo. Pp. 348. 1916. Longmans. 22s.

Farming by Motor. A Guide to all types of Farm Tractors and Motor Ploughing. Cr. 8vo. 1918. Temple Press. 1s. 6d.

Graham, P. A. Reclaiming the Waste. Britain's Most Urgent Problem—Land Reclamation. Cr. 8vo. Pp. 188. 1916. *Country Life*. 3s. 6d.

Lawrence, C. P. Economic Farm Buildings: Systematic Planning, Improvement, Construction. Med. 8vo. Pp. 202. 1919. Library Press. 10s. 6d.

Sherwood, G. The Farm Tractor Handbook. Cr. 8vo. Pp. 176. 1918. Iliffe. 5s.

Vernon, A. Estate Fences: their Choice, Construction, and Cost, with a Chapter on Boundaries and Fences in their Legal Aspect, by T. W. Marshall. Re-issue. 8vo. Pp. 420. 1909. Spon. 10s. 6d.

ix. HISTORY.

Curtler, W. H. R. History of English Agriculture. Cr. 8vo. Pp. 380. 1909. Oxford: Clarendon Press. 7s. 6d.

Green, F. E. A History of the English Agricultural Labourer. His Social Surroundings and Economic Condition from 1894 to the Present Time. Demy 8vo. Pp. 366. 1920. King. 16s.

Haggard, Sir R. Rural England: being an account of Agricultural and Social Researches. New edn. 2 Vols. Cr. 8vo. Pp. 630., 632. 1906. Longmans. 15s.

Hasbach, W. A History of the English Agricultural Labourer. Translated from the German. 2nd edn. Demy 8vo. Pp. 486. 1920. King. 10s. 6d.

Macdonald, W. Makers of Modern Agriculture. Cr. 8vo. Pp. 94. 1913. Macmillan. 2s. 6d.

Matthews, A. H. H. Fifty Years of Agricultural Politics: being the History of the Central Chamber of Agriculture, 1865-1915. Demy 8vo. Pp. 446. 1915. 10s. 6d. Edition-de-luxe (limited to 250 copies). 31s. 6d. Author: 28, Westminster Palace Gardens, S.W.1.

Prothero, R. E. (Lord Ernle). English Farming, Past and Present. 2nd edn. 8vo. Pp. 520. 1919. Longmans. 10s. 6d.

x. ANIMAL HUSBANDRY.

a. Dairying.

Barthel, C. Methods Used in the Examination of Milk and Dairy Products. Translated by W. Goodwin. 8vo. Pp. 272. 1910. Macmillan. 7s. 6d.

Freudenreich, E. von. Dairy Bacteriology. A Short Manual for Students in Dairy Schools, Cheese Makers, and Farmers. Translated by J. R. Ainsworth Davis. 2nd edn. Cr. 8vo. Pp. 178. 1900. Methuen. 3s. 6d.

Agriculture.

- Matthews, E.** Economics in Dairy Farming. Demy 8vo. Pp. 79. 1903. *Country Life*. 9s. 6d.
- Mayall, G.** Cows, Cowhouses, and Milk. 2nd edn. Cr. 8vo. Pp. 144. 1918. Baillière. 4s. 6d.
- Newsham, J. C.** Dairy Farming. Cr. 8vo. Pp. 174. 1920. Pearson. 3s. 6d.
- O'Callaghan, M. A.** Dairying in Australasia, Farm and Factory. Roy. 8vo. Pp. 700. 1912. Oxford University Press (Angus and Robertson). 20s.
- Penlington, W. A. G.** Science of Dairying. Cr. 8vo. Pp. 268. 1919. Macmillan. 3s.
- Richmond, H. D.** Dairy Chemistry. A Practical Handbook for Dairy Chemists and others having Control of Dairies. 3rd edn. Demy 8vo. Pp. 502. 1920. Griffin. 25s.
- The Laboratory Book of Dairy Analysis. 2nd edn. Cr. 8vo. Pp. 108. 1912. Griffin. 3s.
- Sadler, W.** Bacteria as Friends and Foes of the Dairy Farmer. Cr. 8vo. Pp. 128. 1912. Methuen. 2s.
- Saker, D. G.** Practical Dairying. Cr. 8vo. Pp. 131. 1921. Methuen. 6s.
- Thomson, G. S.** Milk and Cream Testing and Grading Dairy Products. Cr. 8vo. Pp. 224. 1911. Crosby Lockwood. 5s.
- The Dairying Industry. Part 1. The Milk and Cream Supply—City, Farm and Factory. Demy 8vo. Pp. 260. 1907. Crosby Lockwood. 10s. 6d.
- Dairying (British and Colonial). The Science and Practice. Demy 8vo. Pp. 476. 1913. Crosby Lockwood. 9s.
- Walker - Tisdale, C. W.** Milk Testing. A simple practical Handbook for Dairy Farmers, Milk Distributors, etc. Cr. 8vo. Pp. 90. 1920. Swarthmore Press. 3s. 6d.
- and Jones, J. Butter and Cheese. Cr. 8vo. Pp. 151. 1920. Pitman. 3s.
- Walker-Tisdale, C. W., and Robinson, T. R.** Practical Butter Making. A Treatise for Butter Makers and Students. 4th edn. Cr. 8vo. Pp. 143. 1919. Swarthmore Press. 5s. 6d.
- and Woodnutt, W. E. Practical Cheese Making. A General Guide to the Manufacture of Cheese. Cr. 8vo. Pp. 198. 1919. Swarthmore Press. 5s. 6d.
- Willoughby, E. F.** Milk: Its Production and Uses, with Chapters on Dairy Farming, Diseases of Cattle, and on the Hygiene and Control of Supplies. Demy 8vo. Pp. 271. 1903. Griffin. 7s. 6d.
- b. Live Stock.**
- Barton, F. T.** Cattle, Sheep and Pigs. Their Practical Breeding and Keeping. 2nd edn. Demy 8vo. Pp. 353. 1920. Jarrolds. 21s.
- The Cottager's Pig: A Practical Treatise on Pig Keeping for the Small Holder and Cottager. Cr. 8vo. Pp. 63. 1920. Jarrolds. 2s. 6d.
- Brigham, A. A.** Progressive Poultry Culture. The Keeping of Poultry for Profit and Pleasure. 2nd edn. Cr. 8vo. Pp. 239. 1912. Methuen. 5s.
- Cheshire, F. R.** Bees and Bee-Keeping: Scientific and Practical. A Complete Treatise on the Anatomy, Physiology, Floral Relations, and Profitable Management of the Hive-Bee. New edn. 2 Vols. Cr. 8vo. 1921. Vol. 1. Scientific. Pp. 344. 12s. 6d. Vol. 2. Practical, with an Appendix bringing the work up to date, by J. B. Lamb. Pp. 750. 15s. Upcott, Gill.
- Cowan, T. W.** British Bee Keeper's Guide Book to the Management of Bees in Movable Comb Hives, and the Use of Modern Bee Appliances. 23rd edn. Cr. 8vo. Pp. 234. 1919. Paper. 2s. 6d. Cloth. 3s. 6d. "British Bee Journal."
- British Bee-keeper's Practical Note Book. 3rd edn. Cr. 8vo. Pp. 72. N.D. "British Bee Journal." 1s.

Agriculture.

- Cowan, T. W.** Wax Craft: All about Beeswax—its History, Production, Adulteration, and Commercial Value. Cr. 8vo. Pp. 172. 1908. "British Bee Journal." 2s.
- Digges, J. G.** The Practical Bee Guide: A Manual of Modern Bee-keeping. 4th edn. Cr. 8vo. Pp. 239. 1918. Simpkin, Marshall. 3s.
- Geary, H.** The Bee-keeper's Vade-Mecum. Pocket size. Pp. 202. 1920. Stanley Paul. 2s. 6d.
- Hanson, S. G.** Commercial Egg Farming. From Practical Experience. Cr. 8vo. Pp. 62. 1919. Constable. 1s. 9d.
- Herrod-Hempsall, W.** Bee-keeping Simplified for the Cottager and Smallholder. 2nd edn. Cr. 8vo. Pp. 52. 1918. "British Bee Journal." 1s.
- Producing, Preparing, Exhibiting, and Judging Bee Produce. Cr. 8vo. Pp. 168. 1912. "British Bee Journal." 2s.
- Hodgins, J. E., and Haskett, T. H.** Diseases of Live Stock. A Practical Handbook for Farmers and Stock-owners. Demy 8vo. Pp. 664. 1910. Baillière. 12s. 6d.
- Hurst, J. W.** Utility Ducks and Geese. Cr. 8vo. Pp. 93. 1919. Constable. 3s.
- Live Stock Journal Annual**, 1921. Roy. 8vo. Pp. 335. Dec., 1920. Vinton. 3s. 6d.
- Long, J.** British Pigs: The Art of Making them Pay. Cr. 8vo. Pp. 140. 1918. Chapman & Hall. 4s.
- M.R.C.V.S., An.** The Farm Vet. A Practical Veterinary Handbook for Farmers. Demy 8vo. Pp. 219. 1914. Macdonald & Martin. 3s. 6d.
- Mackenzie, K. J. J.** Cattle and the Future of Beef-production in England. Demy 8vo. Pp. 180. 1919. Cambridge University Press. 7s. 6d.
- Matheson, D.** Cattle and Sheep. A Practical Manual about Breeds and Breeding, etc. Cr. 8vo. Pp. 202. 1921. Pearson. 5s.
- Mayall, G.** Pigs, Pigsties, and Pork. 2nd edn. Cr. 8vo. Pp. 236. 1921. Baillière. 7s. 6d.
- Sheep and Goats. Cr. 8vo. Pp. 136. 1912. Baillière. 4s. 6d.
- Moussu, G., and Dollar, J. A. W.** Diseases of Cattle, Sheep, Goats, and Swine. Roy. 8vo. Pp. 804. 1905. Baillière. 25s.
- Pearse, A. W.** The World's Meat Future. An Account of the Live Stock Position and Meat Prospects of all Leading Stock Countries of the World; with full lists of Freezing Works. 2nd edn. Demy 8vo. Pp. 351. 1920. Constable. 21s.
- Porter, J.** The Stockfeeder's Companion. Large Cr. 8vo. Pp. 336. 1915. Gurney & Jackson. 5s.
- Sessions, H.** Cattle Tuberculosis. A Practical Guide to the Farmer, Butcher, and Meat Inspector. 2nd edn. Pp. 126. 1905. Baillière. 3s.
- Toovey, T. W.** Commercial Poultry Farming: a description of the King's Langley Poultry Farm. Cr. 8vo. Pp. 152. 1919. Crosby Lockwood. 7s. 6d.
- Wilson, J.** The Breeding and Feeding of Farm Stock. Cr. 8vo. Pp. 160. 1921. Methuen. 6s.
- Wood, T. B., and Marshall, F. H. A.** Physiology of Farm Animals. Part 1. General, by F. H. A. Marshall. Demy 8vo. Pp. 216. 1920. Cambridge University Press. 16s.
- Youatt, W.** The Complete Grazier and Farmer's and Cattle Breeder's Assistant. A Compendium of Husbandry. Enlarged and Re-written by W. Fream and W. E. Bear. 15th edn. Roy. 8vo. Pp. 1100. 1908. Crosby Lockwood. 36s.
- The Horse. Revised and Enlarged by W. Watson. 8vo. Pp. 598. 1915. Longmans. 10s. 6d.

c. Nutrition.

- Hall, Sir A. D.** The Feeding of Crops and Stocks. An Introduction to the Science of the Nutrition of Plants and Animals. Large Cr. 8vo. Pp. 314. 1919. Murray. 7s. 6d.

Agriculture.

- Imperial Institute Monograph.** Oil Seeds and Feeding Cakes. With a Preface by W. R. Dunstan. Cr. 8vo. Pp. 137. 1917. Murray. 2s. 6d.
- Kellner, O. J.** The Scientific Feeding of Animals. Translated from the German. 3rd imp. Cr. 8vo. Pp. 418. 1915. Duckworth. 7s. 6d.
- Morris, T. N.** Microscopic Analysis of Cattle-Foods. Cr. 8vo. Pp. 82. 1917. Cambridge University Press. 3s.
- Murray, J. A.** The Chemistry of Cattle Feeding and Dairying. Cr. 8vo. Pp. 356. 1914. Longmans. 7s. 6d.
- Shanahan, E. W.** Animal Food Stuffs: their Production, and Consumption, with special reference to the British Empire. 8vo. Pp. 321. 1920. Routledge. 10s. 6d.
- Wood, T. B., and Halnan, E. T.** Composition and Nutritive Value of Feeding Stuffs. 2nd edn. Demy 8vo. Pp. 24. 1917. Cambridge University Press. 1s.
- Woodruff, H. A.** The Economics of Feeding Horses. Cr. 8vo. Pp. 128. 1912. Baillière. 3s. 6d.
- xi. FIELD CROPS. •**
- Bald, C.** Indian Tea: its Culture and Manufacture. 3rd edn. 8vo. Thacker. 10s. 6d.
- Balls, W. L.** The Cotton Plant in Egypt: Studies in Physiology and Genetics. 8vo. Pp. 218. 1919. Macmillan. 6s. 6d.
- The Development and Properties of Raw Cotton. Large Cr. 8vo. Pp. 234. 1915. Black. 7s. 6d.
- Barker, A.** The British Corn Trade. From the Earliest Times to the Present Day. Cr. 8vo. Pp. 140. 1920. Pitman. 3s.
- Bradbury, F.** Flax Culture and Preparation: A Concise and Complete Description of the Process of Flax Cultivation from the Selection of Seed to the Preparation of Flax for the Market. Demy 8vo. Pp. 166. 1920. Pitman. 10s. 6d.
- Braham, F.** Rubber Planter's Notebook. A Handy Book of Reference on Para Rubber Planting. Fcap. 8vo. Pp. 116. 1911. Crosby Lockwood. 5s.
- Brown, E., and Hunter, H. H.** Planting in Uganda: Coffee, Para Rubber, Cocoa: with a Chapter on Fungoid Diseases by G. Massee. 8vo. Pp. 192. 1913. Longmans. 10s. 6d.
- Brown, H.** Rubber: Its Sources, Cultivation, and Preparation. Demy 8vo. Pp. 260. 1917. Murray. 6s.
- Coghlan, H. L., and Hinchley, J. W.** Coconut Cultivation and Plantation Machinery. Cr. 8vo. Pp. 140. 1917. Crosby Lockwood. 4s.
- Copeland, E. B.** The Coco-Nut: The Physiology, Diseases and Pests, Culture, and Products of the Coco-Nut. 2nd edn. Demy 8vo. Pp. 241. 1921. Macmillan. 20s.
- Cowie, G. A.** The Fertilization of Tea. Demy 8vo. Pp. 68. 1908. Bale and Danielsson. 2s. 6d.
- Crookes, Sir W.** The Wheat Problem. 3rd edn. With a chapter on Future Wheat Supplies by Sir R. H. Rew. Cr. 8vo. Pp. 116. 1917. Longmans. 3s. 6d.
- Deerr, N.** Cane Sugar: A Text-Book on the Agriculture of the Sugar Cane, the Manufacture of the Sugar Cane, and the Analysis of Sugar House Products. Roy. 8vo. Pp. 592. 1911. Norman Rodger. 20s.
- Ellmore, W. P.** The Cultivation of Osiers and Willows. Cr. 8vo. Pp. 106. 1919. Dent. 4s.
- Faber, H.** Forage Crops in Denmark. The Feeding Value of Roots, selected Strains of Roots, Quantities in the Trade in Seed. Demy 8vo. Pp. 113. 1920. Longmans. 6s.
- Goulding, E.** Cotton and other Vegetable Fibres: Their Production and Utilisation. Demy 8vo. Pp. 242. 1919. Murray. 7s. 6d.

Agriculture.

- Gross, E.** Hops in their Botanical, Agricultural and Technical Aspect, and as an Article of Commerce. Translated from the German. Demy 8vo. Pp. 310. 1900. Scott, Greenwood. 12s. 6d.
- Hart, J. H.** Cacao: A Manual on Cultivation and Curing of Cacao. Demy 8vo. Pp. 317. 1911. Duckworth. 7s. 6d.
- Ibbetson, A.** Tea: from Grower to Consumer. Cr. 8vo. Pp. 124. 1909. Pitman. 3s.
- Johnson, W. H.** Cocoa: Its Cultivation and Preparation. Demy 8vo. Pp. 186. 1912. Murray. 6s.
- Rubber: Its Cultivation and Preparation. 2nd edn. Demy 8vo. Pp. 192. 1909. Crosby Lockwood. 10s. 6d.
- Keable, B. B.** Coffee: From Grower to Consumer. Cr. 8vo. Pp. 130. 1909. Pitman. 3s.
- Lock, R. H.** Rubber and Rubber Planting. Cr. 8vo. Pp. 260. 1913. Cambridge University Press. 6s. 6d.
- Manders, A. S.** (edited by). Rubber Cotton, Fibres, and other Tropical Agricultural Products Handbook. Demy 8vo. Pp. 1040. Pitman. 5s.
- Millar, A.** Wheat and its Products, and the Modern Method of Producing Wheat Flour. Cr. 8vo. Pp. 144. 1916. Pitman. 3s.
- Milligan, F. M.** Some Essential Notes on Oil Palm Cultivation. Small Cr. 8vo. Pp. 112. 1914. Crosby Lockwood. 3s.
- Munro, R. W., and Brown, L. C.** A Practical Guide to Coconut Planting. 2nd edn. Cr. 8vo. Pp. 223. 1920. Bale & Danielsson. 15s.
- Newland, H. O.** The Planting, Cultivation and Expression of Coconuts, Kernels, Cacao, and Edible Vegetable Oils and Seeds of Commerce. Demy 8vo. Pp. 111. 1919. Griffin. 6s.
- Penzer, N. M.** Cotton in British West Africa, including Togoland and the Cameroons. Demy 8vo. Pp. 54. 1920. Murby. 5s.
- Ridley, H. N.** Spices. 8vo. Pp. 460. 1912. Macmillan. 10s. 6d.
- Rutherford's Planters' Note Book** of useful Memoranda for everyone connected with the Planting Industries of the Middle East. 7th edn. Demy 8vo. Pp. 500. 1918. "Times of Ceylon." 20s.
- Rutter, W. P.** Wheat Growing in Canada, the United States, and the Argentine. Large Cr. 8vo. Pp. 315. 1911. Black. 3s. 6d.
- Smith, H. H.** Soil and Plant Sanitation on Cacao and Rubber Estates; with Sections on Ceará Rubber Cultivation, Castilloa Rubber Cultivation, Funtumia Rubber Cultivation and Rubber Tapping. Cr. 8vo. Pp. 684. 1911. Bale & Danielsson. 10s.
- Coco-Nuts: the Consols of the East. 2nd edn. Cr. 8vo. Pp. 612. 1913. Bale and Danielsson. 12s. 6d.
- The Fermentation of Cacao. Cr. 8vo. Pp. 318. 1913. Bale & Danielsson. 10s.
- Tanner, A. E.** Tobacco: From Grower to Smoker. Cr. 8vo. Pp. 128. 1912. Pitman. 3s.
- Teetgen, A. B.** Profitable Herb Growing and Collecting. 2nd edn. Cr. 8vo. Pp. 206. 1919. *Country Life*. 5s.
- Thomson, W.** A Practical Treatise on the Cultivation of the Grape Vine. 10th edn. 8vo. Pp. 113. 1903. Blackwood. 5s.
- Todd, J. A.** The World's Cotton Crops. New edn. in preparation. Black.
- Ugarte, J. P.** Coffee: its Cultivation and Preparation for the Market. 2nd edn. Large Cr. 8vo. Pp. 101. 1920. Crosby Lockwood. 7s. 6d.
- Van Hall, C. J. J.** Cocoa. 8vo. Pp. 532. 1914. Macmillan. 17s.
- Watt, Sir G.** Wild and Cultivated Cotton-Plants of the World: a Revision of the Genus *Gossypium*, framed primarily with the object of aiding Planters and Investigators who may contemplate the Systematic Improvement of the Cotton Staple. Roy. 8vo. Pp. 420. 1907. Longmans. 35s.

Wickham, H. A. Para Indian Rubber: Plantation, Cultivation, and Curing. 8vo. Pp. 178. 1908. Kegan Paul. 3s. 6d.

Woodroffe, J. F., and Smith, H. H. The Rubber Industry of the Amazon, and How Its Supremacy can be Maintained. Demy 8vo. Pp. 483. 1915. Bale & Danielsson. 21s.

xii. SOILS AND FERTILISERS.

Collins, S. H. Plant Products and Chemical Fertilisers. Demy 8vo. Pp. 252. 1919. Baillière. 10s. 6d.

— Chemical Fertilizers and Parasitides: Sources, Manufacture, Uses, and their Future. Demy 8vo. Pp. 285. 1920. Baillière. 10s. 6d.

Fritsch, J. The Manufacture of Chemical Manures. Translated from the French. 2nd edn. Revised by H. B. Stocks. 8vo. Pp. 395. 1920. Scott, Greenwood. 15s.

Griffiths, A. B. A Treatise on Manures: or the Philosophy of Manuring. 3rd edn. Cr. 8vo. Pp. 450. 1892. Pitman. 7s. 6d.

Hall, Sir A. D. Fertilisers and Manures. Large Cr. 8vo. Pp. 384. 1919. Murray. 8s.

— The Soil. An Introduction to the Scientific Study of the Growth of Crops. 3rd edn. Large Cr. 8vo. Pp. 352. 1920. Murray. 8s.

Knox, G. D. The Spirit of the Soil. Cr. 8vo. Pp. 255. 1915. Constable. 2s. 6d.

Murray, J. A. Soils and Manures. 2nd imp. Ex. Cr. 8vo. Pp. 367. 1919. Constable. 8s. 6d.

Russell, E. J. The Fertility of the Soil. Roy. 16mo. Pp. 128. 1913. Cambridge University Press. 2s. 6d.

— Lessons on Soil. Cr. 8vo. Pp. 148. 1912. Cambridge University Press. 3s.

— A Student's Book on Soils and Manures. 2nd edn. Cr. 8vo. Pp. 240. 1919. Cambridge University Press. 8s.

— Manuring for Higher Crop Production. 2nd edn. Demy 8vo. Pp. 78. 1916. Cambridge University Press. 4s. 6d.

— Soil Conditions and Plant Growth. New edn. in preparation. Longmans.

Sornay, P. de. Green Manures and Manuring in the Tropics. Translated from the French by F. W. Flattely. Roy. 8vo. Pp. 460. 1916. Bale & Danielsson. 16s.

Vendelmans, H. The Manual of Manures. Cr. 8vo. Pp. 190. 1916. *Country Life*. 5s.

Ville, G. Artificial Manures: Their Chemical Selection and Scientific Application to Agriculture. Revised by Sir William Crookes and J. Percival. 8vo. Pp. 386. 1909. Longmans. 11s. 6d.

Warington, R. The Physical Properties of Soil. 8vo. Pp. 232. 1900. Oxford: Clarendon Press. 7s. 6d.

Warrell, C. The Science of the Soil: for Farmers and Land Workers. Cr. 8vo. Pp. 163. 1920. Pitman. 3s. 6d.

ANATOMY.

i. GENERAL: PRACTICAL, SURGICAL.

Beesly, L., and Johnston, T. B. Surgical Anatomy for Students and Practitioners. 2nd edn. Cr. 8vo. Pp. 537. 1916. Frowde & Hodder. 16s.

Berry, R. J. A. An Atlas of Sectional and Topographical Anatomy. 4to. Pp. 17 and 60 Plates. 1911. W. Green. 42s.

Box, C. R., and Eccles, W. McA. Clinical Applied Anatomy. Roy. 8vo. Pp. 479. 1906. Churchill. 12s. 6d.

Braune, W. An Atlas of Topographical Anatomy, after Plane Sections of Frozen Bodies. Translated by E. Bellamy. Large Imp. 8vo. Pp. 200. 1877. Churchill. 40s.

Brodie, C. G. Dissections. A Graphic Handbook for Surgeons and Students of Human Anatomy. 2nd edn. Imp. 8vo. Pp. 142 and 73 Plates. 1904. Pitman. 25s.

Buchanan, A. M. Manual of Anatomy: Systematic and Practical, including Embryology. 5th edn. edited by a Committee of Anatomists in London. Demy 8vo. Pp. 1,755. 1919. Baillière. 30s.

Catechism Series. Anatomy. 3rd edn. 6 Parts. Revised by J. R. Whitaker and C. R. Whittaker. Part 1. Upper Extremity. Part 2. Lower Extremity. Part 3. Head and Neck. Part 4. The Abdomen. Part 5. The Thorax. Part 6. The Bones. Livingstone. 1s. 9d. each.

— **Surgical Anatomy.** 2nd edn. 3 Parts. Written by C. R. Whittaker. 1s. 9d. each. Also in one volume, Pp. 177. 1920. Cloth, 5s. 6d. Livingstone.

Clark, H. E. An Elementary Text-Book of Anatomy. Cr. 8vo. Pp. 283. N.D. Blackie. 6s.

Cooke, T. Tablets of Anatomy. Being a Synopsis of Demonstrations given in the Westminster Hospital Medical School. 3 Parts. Post 4to. 1898. Part 1. The Bones. Pp. 188. 7s. 6d. Part 2. Limbs, Abdomen, Pelvis. Pp. 378. 10s. 6d. Part 3. Head and Neck, Thorax, Brain. Pp. 412. 10s. 6d. Longmans.

Cunningham, D. J. Manual of Practical Anatomy. Revised and Edited by A. Robinson. 7th edn. 3 vols. Cr. 8vo. Vol. 1. Superior Extremity: Inferior Extremity. Pp. 481. 1919. Vol. 2. Thorax and Abdomen. Pp. 554. 1920. Vol. 3. Head and Neck. Pp. 600. 1920. Frowde & Hodder. 12s. 6d. each.

— **Text-Book of Anatomy.** Edited by A. Robinson. 4th edn. 3rd imp. Roy. 8vo. Pp. 1631. 1917. Frowde & Hodder. 42s.

Ellis's Demonstrations of Anatomy: being a Guide to the Knowledge of the Human Body by Dissection. 12th edn. Edited by C. Addison. Small 8vo. Pp. 851. 1905. Murray. 12s. 6d.

Ewart, E. D. A Guide to Anatomy, for Students of Medical Gymnastics, Massage, and Medical Electricity. Demy 8vo. Pp. 313. 1921. Lewis. 16s.

Fagge, C. H. The Pocket Anatomy. 8th edn. Fcap. 8vo. Pp. 312. 1920. Baillière. 5s.

Gray, H. Anatomy: Descriptive and Applied. 21st edn. Edited by R. Howden, with Notes on Applied Anatomy, revised by A. J. Jex-Blake and J. Clay. Roy. 8vo. Pp. 1382. 1920. Longmans. 42s.

- Heath, C., and Lane, J. E.** *Practical Anatomy: a Manual of Dissections.* 9th edn. Cr. 8vo. Pp. 714. 1902. Churchill. 15s.
- Hughes, A. W., and Keith, Sir A.** *A Manual of Practical Anatomy.* 8 Parts. Small Roy. 8vo. 1901-2. Part 1. Upper and Lower Extremities. Pp. 296. 12s. 6d. Part 2. Abdomen and Thorax. Pp. 324. 10s. 6d. Part 3. Head, Neck, and Central Nervous System. Pp. 403. 12s. 6d. Churchill.
- Jamieson, E. B.** *A Companion to Manuals of Practical Anatomy.* 3rd imp. Fcap. 8vo. Pp. 543. 1918. Frowde & Hodder. 8s. 6d.
- *The Basle Nomenclature (B.N.A.)* being an Alphabetical List of Terms showing the old Terminology, the B.N.A. Terminology, and the suggested English Equivalent. Roy. 8vo. Pp. 99. 1916. W. Green. 6s.
- Johnston, T. B.** *Medical Applied Anatomy.* Cr. 8vo. Pp. 436. 1915. Black. 12s. 6d.
- MacEwen, J. A. C.** *Surgical Anatomy.* 2nd edn. Demy 8vo. Pp. 551. 1916. Baillière. 12s.
- Morris, Sir H.** *Treatise on Human Anatomy.* 5th edn. edited by C. M. Jackson. Roy. 8vo. Pp. 1554. 1915. Churchill. 36s.
- Morton, W. C.** *Principles of Anatomy: The Abdomen Proper.* Demy 8vo. Pp. 174, and 28 large Coloured Plates. 1911. Heinemann. 21s.
- Orrin, H. C.** *An X-Ray Atlas of the Systematic Arteries of the Body.* 4to. 1920. Baillière. 12s. 6d.
- Parsons, F. G., and Wright, W.** *Practical Anatomy.* 2 vols. Large Cr. 8vo. 1912. Vol. 1. Pp. 467. Vol. 2. Pp. 382. Arnold. 17s.
- Paterson, A. M.** *The Anatomist's Note Book.* Demy 8vo. Pp. 350. 1914. Frowde & Hodder. 6s. 6d.
- Potter, S. O. L.** *A Compend of Human Anatomy.* 8th edn. Cr. 8vo. Pp. 446. 1917. Frowde & Hodder. 6s. 6d.
- Quain's Elements of Anatomy.** Edited by Sir E. A. S. Schafer, J. Symington, and T. H. Bryce. Roy. 8vo. Vol. 1. Embryology, by T. H. Bryce. 11th edn. Pp. 284. 1908. 12s. Vol. 2. Part 2. Splanchnology, by J. Symington. Pp. 402. 1914. 14s. Vol. 3. Neurology, by Sir E. A. S. Schafer & J. Symington. 2 Parts. 11th edn. Pp. 431., 392. 1909. 14s. each part. Vol. 4. Part 1. Osteology and Arthrology, by T. H. Bryce. Pp. 333. 1915. 17s. Longmans.
- Taylor, E. H.** *Applied Anatomy: A Treatise for Students, House Surgeons, and for Operating Surgeons.* Roy. 8vo. Pp. 766. 1904. Griffin. 36s.
- Treves, Sir F., Keith, Sir A., and Mackenzie, W. C.** *Surgical Applied Anatomy.* 7th edn. Fcap. 8vo. Pp. 712. 1918. Cassell. 12s.
- Walmsley, T.** *A Manual of Practical Anatomy. A Guide to the Dissection of the Human Body.* Part 1. The Upper and Lower Limbs. 8vo. Pp. 184. 1920. Longmans. 9s.
- Whittaker, C. R.** *A Manual of Surgical Anatomy.* 3rd edn. Cr. 8vo. Pp. 440. 1921. Livingstone. 15s.

ii. EMBRYOLOGY.

- Assheton, R.** *Growth in Length: Embryological Essays.* Demy 8vo. Pp. 116. 1916. Cambridge University Press. 2s. 6d.
- Balfour, F. M.** *A Treatise on Comparative Embryology.* 2 vols. Med. 8vo. 1885. Vol. 1. Pp. 628. 18s. Vol. 2. Pp. 828. 21s. Macmillan.
- Ballantyne, J. W.** *Manual of Antenatal Pathology and Hygiene.* 2 Vols. Roy. 8vo. Vol. 1. The Fœtus. Pp. 544. 1920. Vol. 2. The Embryo. Pp. 718. 1904. W. Green. 21s. each vol.
- Feldman, W. M.** *The Principles of Ante-Natal and Post-Natal Child Physiology: Pure and Applied.* 8vo. Pp. 721. 1920. Longmans. 30s.

Hertwig, O. Text-Book of the Embryology of Man and Mammals. Translated by E. L. Mark. 5th edn. Demy 8vo. Pp. 670. 1912. Allen & Unwin. 21s.

Jenkinson, J. W. Three Lectures on Experimental Embryology; with a Memoir by R. R. Marett. 8vo. Pp. 128. 1917. Oxford: Clarendon Press. 7s. 6d.

— Vertebrate Embryology, comprising the Early History of the Embryo and its Fetal Membranes, with chapters on Growth, Germ Cells, the Development of the Embryo, and a Discussion of the Embryonic Organs. Demy 8vo. Pp. 368. 1913. Oxford: Clarendon Press. 12s. 6d.

— Experimental Embryology, with Chapters on Cell Division and Growth, External and Internal Factors, and Driesch's Theories of Development. Demy 8vo. Pp. 350. 1909. Oxford: Clarendon Press. 12s. 6d.

Keith, Sir A. Human Embryology and Morphology. 4th edn. Demy 8vo. Pp. 500. 1921. Arnold. 30s.

MacBride, E. W., Kerr, J. G., and others. Text Book of Embryology. 3 vols. Med. 8vo. Vol. 1. Invertebrata, by E. W. MacBride. Pp. 724. 1914. 31s. 6d. Vol. 2. Vertebrata (with the exception of Mammalia), by J. G. Kerr. Pp. 604. 1919. 31s. 6d. Vol. 3. Mammalia, by R. Assheton, F. H. A. Marshall, and J. T. Saunders. In preparation. Macmillan.

Paterson, A. M. A Manual of Embryology. A Manual for Students. Cr. 8vo. Pp. 407. 1915. Frowde & Hodder. 12s. 6d.

Przibram, H. Experimental Zoology. Part I. Embryogeny. Roy. 8vo. Pp. 164. 1908. Cambridge University Press. 12s.

iii. HISTOLOGY.

Catechism Series. Histology. Livingstone. 1s. 9d.

Goodall, A. Aids to Histology. 2nd edn. Fcap. 8vo. Pp. 143. 1910. Baillière. 3s.

Langley, J. N. Practical Histology. 3rd edn. Cr. 8vo. Pp. 328. 1920. Heffer. 10s. 6d.

Lee, A. B. The Microtometist's Vademecum: a Handbook of the Methods of Microscopic Anatomy. 8th edn. Edited by J. B. Gatenby. Demy 8vo. Pp. 604. 1921. Churchill. 28s.

Mann, G. Methods and Theory of Physiological Histology. 8vo. Pp. 504. 1902. Oxford: Clarendon Press. 15s.

Radasch, H. E. Elements of Histology. 3rd edn. Cr. 8vo. Pp. 363. 1913. Frowde & Hodder. 6s.

Schafer, Sir E. A. S. The Essentials of Histology: Descriptive and Practical. For the Use of Students. 11th edn. Demy 8vo. Pp. 589. 1920. Longmans. 14s.

Squire, Sir P. W. Methods and Formulae used in the Preparation of Animal and Vegetable Tissues for Microscopical Examination, including the Staining of Bacteria. Cr. 8vo. Pp. 93. 1892. Churchill. 3s. 6d.

iv. OSTEOLOGY; NEUROLOGY; GLANDS.

Dixon, A. F. Manual of Human Osteology for Students. Cr. 8vo. Pp. 316. 1912. Frowde & Hodder. 12s. 6d.

Frazer, J. E. The Anatomy of the Human Skeleton. 2nd edn. Cr. 4to. Pp. 282. 1920. Churchill. 36s.

Leaf, C. H. The Surgical Anatomy of the Lymphatic Glands. Demy 8vo. Pp. 72. 1898. Constable. 10s. 6d.

Lickley, J. D. The Nervous System. An Elementary Handbook of the Anatomy and Physiology of the Nervous System. Fcap. 4to. Pp. 142. 1919. Longmans. 9s.

Obersteiner, Prof. The Anatomy of the Central Nervous Organs in Health and Disease. Translated by A. Hill. 2nd edn. Large 8vo. Pp. 566. 1900. Griffin. 80s.

Paterson, A. M. *Anatomy of the Peripheral Nerves.* Demy 8vo. Pp. 176. 1919. Frowde & Hodder. 12s. 6d.

— *The Human Sternum.* Cr. 4to. Pp. 112. 1904. Constable. 10s. 6d.

Turner, P. *Aids to Osteology.* 2nd edn. Fcap. 8vo. Pp. 195. 1920. Baillière. 4s. 6d.

Whittaker, J. R. *Anatomy of the Brain and Spinal Cord.* 5th edn. Cr. 8vo. Pp. 278. 1921. Livingstone. 12s. 6d.

v. SURFACE ANATOMY.

Björkegren, M. E. *Handbook of Anatomy for Students of Massage.* 2nd edn. Demy 8vo. Pp. 243. 1918. Baillière. 6s.

Jex-Blake, A. J. *Physical Signs in the Chest and Abdomen.* Demy 8vo. Pp. 124. 1921. Churchill. 9s. 6d.

Moorhead, T. G. *Surface Anatomy.* Cr. 8vo. Pp. 158. 1905. Baillière. 4s. 6d.

Rawling, L. B. *Landmarks and Surface Markings of the Human Body.* 5th edn. Demy 8vo. Pp. 104. 1920. Lewis. 7s. 6d.

Whittaker, C. R. *Essentials of Surface Anatomy.* 3rd edn. Cr. 8vo. Pp. 88. 1920. Churchill. 7s. 6d.

Windle, Sir B. C. A. *A Handbook of Surface Anatomy and Landmarks.* 3rd edn. Post 8vo. Pp. 154. 1902. Lewis. 4s.

vi. ARTISTIC ANATOMY.

Armstead, H. W. *The Artistic Anatomy of the Horse.* Text and 20 original Plates. Roy. 4to. 1900. Baillière. 12s. 6d.

Cuyer, E. *The Artistic Anatomy of Animals.* Authorised Translation. Edited by G. Haywood. Demy 8vo. Pp. 334. 1905. Baillière. 10s. 6d.

Thomson, A. *A Handbook of Anatomy for Art Students.* 4th edn. 8vo. Pp. 484. 1915. Oxford: Clarendon Press. 25s.

vii. COMPARATIVE ANATOMY.

Bourne, G. C. *An Introduction to the Study of the Comparative Anatomy of Animals.* 2 vols. Cr. 8vo. Vol. 1. *Animal Organisation. The Protozoa and Coelenterata.* 6th edn. Pp. 315. 1919. Vol. 2. *The Coelomate Metazoa.* 9th edn. Pp. 336. 1909. Bell. 7s. 6d. per vol.

Lang, A. *Text Book of Comparative Anatomy.* Translated by H. M. and M. Bernard. With Preface to the English Translation by E. Haeckel. 2 Vols. 8vo. Pp. 580., 632. 1891, 1896. Macmillan. 17s. each.

Rolleston, G. *Forms of Animal Life, a Manual of Comparative Anatomy, with descriptions of selected Types.* 2nd edn. Revised and enlarged by W. H. Jackson. Roy. 8vo. Pp. 970. 1888. Oxford: Clarendon Press. 30s.

PHYSIOLOGY.

1. GENERAL AND PRACTICAL.

- Alcock, N. H., and Ellison, F. O'B.** A Text-book of Experimental Physiology. Sm. Roy. 8vo. Pp. 139. 1909. Churchill. 7s. 6d.
- Ashby, H.** Notes on Physiology. Revised by H. T. Ashby. 8th edn. Cr. 8vo. Pp. 368. 1917. Longmans. 7s. 6d.
- Bainbridge, F. A., and Menzies, J. A.** Essentials of Physiology. 3rd edn. 8vo. Pp. 492. 1919. Longmans. 14s.
- Barclay, H. C.** Lectures on Elementary Anatomy and Physiology. Demy 8vo. Pp. 298. 1915. Baillière. 6s.
- Bayliss, W. M.** An Introduction to General Physiology. 8vo. Pp. 254. 1919. Longmans. 7s. 6d.
- Principles of General Physiology. 3rd edn. Roy. 8vo. Pp. 888. 1920. Longmans. 28s.
- Brown, W. L.** Physiological Principles in Treatment. 3rd edn. Cr. 8vo. Pp. 416. 1914. Baillière. 8s. 6d.
- Brubaker, A. P.** A Compend of Human Physiology. 13th edn. Cr. 8vo. Pp. 256. 1912. Frowde & Hodder. 6s.
- Buckmaster, G. A., and Kickman, H. R. B.** A Course of Practical Physiology. Introductory to Physiology and Medicine. Cr. 8vo. Pp. 144. 1920. J. Wright. 5s.
- Catechism Series.** Physiology. 3rd edn. 4 Parts. Revised by A. Goodall. Part 1. Muscles and Nerves, Circulation, Heart, Blood Vessels, Vaso-Motor Mechanism, Blood, Lymphatics, Respiration. Part 2. Voice and Speech, Nutrition, Digestion, Heat Production, General Metabolism, Internal Secretions, etc. Part 3. Excretion, Kidneys, Skin, Senses. Part 4. Nervous System, Reproduction. Livingstone. 1s. 9d. each.
- Flack, M., and Hill, L.** A Text-book of Physiology. Med. 8vo. Pp. 800. 1919. Arnold. 25s.
- Foster, Sir M.** A Text-book of Physiology. 8vo. Part 1. Book 1. Blood: the Tissues of Movement, the Vascular Mechanism. 6th edn. Pp. 408. 1893. 12s. 6d. Part 2. Book 2. The Tissues of Chemical Action, with their respective Mechanisms: Nutrition. 6th edn. Pp. 560. 1899. 12s. 6d. Part 4. Book 3. The Senses. 6th edn. Pp. 342. 1900. 12s. 6d. Part 5. Appendix by A. S. Lea. Pp. 298. 1892. 8s. 6d. Macmillan.
- Lectures on the History of Physiology during the Sixteenth, Seventeenth, and Eighteenth Centuries. Demy 8vo. Pp. 310. 1901. Cambridge University Press. 12s. 6d.
- and Langley, J. N. A Course of Elementary Practical Physiology and Histology. 7th edn. Cr. 8vo. Pp. 414. 1902. Macmillan. 8s. 6d.
- and Shore, L. E. Physiology for Beginners. New imp. Gl. 8vo. Pp. 271. 1919. Macmillan. 8s.
- Furneaux, W. S.** Human Physiology. 21st imp. Cr. 8vo. Pp. 264. 1920. Longmans. 4s.
- Haldane, J. S.** The New Physiology, and other Addresses. Demy 8vo. Pp. 167. 1919. Griffin. 8s. 6d.
- Halliburton, W. D.** A Primer of Physiology. 3rd edn. Fcap. 8vo. Pp. 176. 1920. Dent. 2s.
- Handbook of Physiology. 15th edn. Being the 26th of Kirkes'. Square Demy 8vo. Pp. 936. 1920. Murray. 25s.
- (edited by). Physiology and the National Needs. By Various Writers. Demy 8vo. Pp. 169. 1919. Constable. 8s. 6d.
- Harris, D. F.** The Functional Inertia of Living Matter: a Contribution to the Physiological Theory of Life. 8vo. Pp. 148. 1908. Churchill. 5s.

- Hertwig, O.** *The Cell: Outlines of General Anatomy and Physiology.* Translated by M. and H. J. Campbell. 2nd edn. Demy 8vo. Pp. 368. 1909. Allen & Unwin. 8s. 6d.
- Hill, A.** *The Body at Work.* Demy 8vo. Pp. 460. 1908. Arnold. 16s.
- Hill, L.** *A Manual of Human Physiology.* 3rd edn. Cr. 8vo. Pp. 496. 1919. Arnold. 7s. 6d.
- **Moore, B., Flack, M., and others.** *Further Advances in Physiology.* Demy 8vo. Pp. 448. 1909. Arnold. 16s.
- Hutchison, R.** *Applied Physiology.* Cr. 8vo. Pp. 310. 1908. Arnold. 7s. 6d.
- Huxley, T. H.** *Lessons in Elementary Physiology.* New edn. Revised by J. Barcroft. Fcap. 8vo. Pp. 628. 1917. Macmillan. 6s.
- Keith, Sir A.** *The Engines of the Human Body.* Demy 8vo. Pp. 284. 1919. Williams & Norgate. 12s. 6d.
- *The Human Body.* Fcap. 8vo. Pp. 256. 1912. Williams & Norgate. 2s. 6d.
- Lack, L. A. H.** *An Introduction to Physiology.* 8vo. Pp. 226. 1905. W. Green. 8s.
- Landois, L.** *A Text-book of Human Physiology. Including Histology and Microscopical Anatomy, with Special Reference to the Requirements of Practical Medicine.* Translated and Edited by A. P. Brubaker and A. A. Eshner. 5th edn. Large 8vo. Pp. 1,027. 1904. Griffin. 36s.
- Luciani, L.** *Human Physiology.* Translated by F. A. Welby, with a Preface by J. N. Langley. In 5 Vols. 8vo. Vol. 1. *Circulation and Respiration.* Pp. 606. 1911. 21s. Vol. 2. *Internal Secretion—Digestion—Excretion—The Skin.* Pp. 566. 1913. 21s. Vol. 3. *Muscular and Nervous Systems.* Pp. 678. 1915. 21s. Vol. 4. *The Sense Organs.* Pp. 530. 1917. 21s. Vol. 5. *Metabolism—Temperature—Reproduction, etc.* Pp. 430. 1921. 30s. Macmillan.
- Lyle, H. W.** *Manual of Physiology.* 2nd edn. in preparation. Frowde and Hodder.
- McKendrick, J. G.** *Principles of Physiology.* Fcap. 8vo. Pp. 255. 1912. Williams & Norgate. 2s. 6d.
- MacLeod, J. J. R.** *Physiology and Biochemistry in Modern Medicine.* 2nd edn. Roy. 8vo. Pp. 935. 1919. Kimpton. 42s.
- Paton, D. N.** *Essentials of Human Physiology.* 5th edn. Demy 8vo. Pp. 700. 1920. W. Green. 25s.
- Pembrey, M. S., Beddard, A. P., and others.** *Practical Physiology.* 3rd edn. Demy 8vo. Pp. 498. 1910. Arnold. 16s.
- Roberts, F.** *Synopsis of Physiology.* Cr. 8vo. Pp. 389. 1920. Churchill. 15s.
- Roget, F. F.** *Altitude and Health. Three Lectures delivered in London for the Chadwick Trust.* Demy 8vo. Pp. 198. 1919. Constable. 12s. 6d.
- Rutherford, A. H.** *The Ileo-Caecal Valve.* Demy 8vo. Pp. 69. 1914. Lewis. 6s.
- Schäfer, Sir E. A. S. (edited by).** *A Text-Book of Physiology. By British Physiologists.* 2 vols. Roy. 8vo. Vol. 1. Pp. 1056. 1898. 31s. 6d. Vol. 2. Pp. 1389. 1900. 42s. Frowde & Hodder.
- *Experimental Physiology.* New edn. 8vo. Pp. 136. 1918. Longmans. 6s.
- Sherrington, C. S.** *Mammalian Physiology. A Course of Practical Exercises.* Med. 4to. Pp. 168. 1919. Oxford: Clarendon Press. 12s. 6d.
- Short, A. R.** *The New Physiology in Surgical and General Practice.* 4th edn. Cr. 8vo. Pp. 302. 1920. John Wright. 9s. 6d.
- Starling, E. H.** *Principles of Human Physiology. The Chapter on the Sense Organs Revised and Largely Rewritten by H. Hartridge.* 3rd edn. Roy. 8vo. Pp. 1329. 1920. Churchill. 25s.
- *Primer of Physiology.* Fcap. 8vo. Pp. 128. 1904. Murray. 1s. 6d.

Stewart, G. N. *A Manual of Physiology, with Practical Exercises.* 8th edn. Demy 8vo. Pp. 1270. 1918. Baillière. 21s.

Tait, J., and Krause, R. A. *Aids to Physiology.* Fcap. 8vo. Pp. 250. 1919. Baillière. 4s.

Thornton, J. *Human Physiology.* Cr. 8vo. Pp. 472. 1920. Longmans. 10s. 6d.

— *Elementary Practical Physiology.* Cr. 8vo. Pp. 332. 1919. Longmans. 6s.

Waller, A. D. *Physiology: the Servant of Medicine.* Chloroform in the Laboratory and in the Hospital. Cr. 8vo. Pp. 150. 1910. University of London Press. 5s.

II. CHEMICAL PHYSIOLOGY,

Bayliss, W. M. *The Physiology of Food and Economy in Diet.* Cr. 8vo. Pp. 116. 1917. Longmans. 2s. 6d.

— *The Nature of Enzyme Action.* 4th edn. Roy. 8vo. Pp. 198. 1919. Longmans. 8s.

Beatty, J. *The Method of Enzyme Action.* 8vo. Pp. 152. 1917. Churchill. 5s.

Halliburton, W. D. *The Essentials of Chemical Physiology for the Use of Students.* 10th edn. 8vo. Pp. 335. 1919. Longmans. 8s.

— *Chemical Side of Nervous Activity.* Demy 8vo. Pp. 100. 1901. Bale & Danielsson. 5s.

Mann, G. *Chemistry of the Proteids.* 8vo. Pp. 624. 1906. Macmillan. 18s.

Starling, E. H. *The Feeding of Nations. A Study in Applied Physiology.* Cr. 8vo. Pp. 156. 1919. Longmans. 5s.

III. NERVES, BRAIN, SPECIAL SENSES.

Gaskell, W. H. *The Involuntary Nervous System.* New edn. 8vo. Pp. 188. 1920. Longmans. 12s.

Greenwood, M. *Physiology of the Special Senses. A Manual for Students.* Demy 8vo. Pp. 248. 1910. Arnold. 10s. 6d.

Leduc, S. *The Mechanism of Life.* Translated by W. D. Butcher. Demy 8vo. Pp. 172. 1911. Heinemann. 6s.

Lucas, K. *The Conduction of the Nervous Impulse.* 8vo. Pp. 114. 1917. Longmans. 6s.

Luys, J. *The Brain and Its Functions.* 5th edn. Cr. 8vo. Pp. 345. 1907. Kegan Paul. 7s. 6d.

Whitaker, C. R. *Nerves of the Human Body.* Demy 8vo. Pp. 76. 1918. Livingstone. 4s. 6d.

IV. SECRETIONS, MUSCLES, ELECTRO-PHYSIOLOGY.

Bainbridge, F. A. *The Physiology of Muscular Exercise.* 8vo. Pp. 226. 1919. Longmans. 10s. 6d.

Baines, A. E. *Studies in Electro-Physiology (Animal and Vegetable).* 8vo. Pp. 320. 1918. Routledge. 12s. 6d.

Biedermann, W. *Electro Physiology.* Translated by F. A. Welby. 8vo. Vol. 1. Pp. 534. 1896. Vol. 2. Pp. 508. 1898. Macmillan. 17s. each.

Bose, Sir J. C. *Comparative Electro-Physiology: a Physico-Physiological Study.* 8vo. Pp. 804. 1907. Longmans. 16s.

Cushny, A. R. *The Secretion of the Urine.* 8vo. Pp. 254. 1917. Longmans. 10s.

Krogh, A. *The Respiratory Exchange of Animals and Man.* Roy. 8vo. Pp. 182. 1916. Longmans. 9s.

Mackenzie, W. C. *The Action of Muscles: Including Muscle Rest and Muscle Re-Education.* Edited by C. Mackay. Demy 8vo. Pp. 283. 1919. Lewis. 12s. 6d.

Starling, E. H. *Fluids of the Body.* Demy 8vo. Pp. 194. 1909. Constable. 6s.

Vincent, S. *Internal Secretion and the Ductless Glands.* 2nd edn. in preparation. Arnold.

v. SEXUAL PHYSIOLOGY, ETC.

- Bell, W. B.** *The Sex Complex. A Study of the Relationships of the Internal Secretions to the Female Characteristics and Functions in Health and Disease.* 2nd edn. Roy. 8vo. Pp. 268. 1920. Baillière. 21s.
- Bloch, I.** *The Sexual Life of our Time in its Relations to Modern Civilisation.* Translated from the German by M. E. Paul. Med. 8vo. Pp. 800. Heinemann. 21s. (Sale limited to Members of the Medical, Legal and Scholastic Professions).
- Bower, F. O., Kerr, J. G., and Agar, W. E.** *Lectures on Sex and Heredity.* Cr. 8vo. Pp. 126. 1919. Macmillan. 45s.
- Dawson, E. R.** *The Causation of Sex in Man. A New Theory of Sex based on Clinical Materials, together with Chapters on Forecasting or Predicting the Sex of the Unborn Child, and on the Determination or Production of either Sex at Will.* 2nd edn. Demy 8vo. Pp. 240. 1917. Lewis. 9s.
- The Declining Birth-Rate: Its Causes and Effects.** Prepared by the Council of Public Morals. 2nd edn. Demy 8vo. Pp. 464. 1917. Chapman & Hall. 10s. 6d.
- Ellis, H.** *Man and Woman: A Study of Human Secondary Sexual Characters.* 4th edn. Cr. 8vo. Scott Pub. Co. 7s. 6d.
- Heape, W.** *Sex Antagonism.* Demy 8vo. Pp. 225. 1913. Constable. 7s. 6d.
- Herbert, S.** *An Introduction to the Physiology and Psychology of Sex.* 2nd edn. Cr. 8vo. Pp. 136. 1919. Black. 7s. 6d.
- *Sex Lore. A Primer on Courtship, Marriage and Parenthood.* Cr. 8vo. Pp. 148. 1918. Black. 7s. 6d.
- Loewenfeld, L.** *On Conjugal Happiness. Experiences, Reflections and Advice of a Medical Man.* Translated by R. E. S. Krohn. Demy 8vo. Pp. 303. 1913. Bale & Danielsson. 7s. 6d.
- March, N. H.** *Towards Racial Health.* 4th edn. Cr. 8vo. Pp. 338. 1920. Routledge. 5s.
- Marshall, F. H. A.** *The Physiology of Reproduction. With Contributions by W. Cramer and J. Lochead.* New edn. in preparation. Longmans.
- Menzies, K.** *Autoerotic Phenomena in Adolescence. An Analytical Study of the Psychology and Psychopathology of Onanism.* Cr. 8vo. Pp. 96. 1919. Lewis. 5s.
- Problems of Population and Parenthood.** Being the Second Report of and the Chief Evidence taken by the National Birth-rate Commission, 1918-1920. Demy 8vo. Pp. 590. 1920. Chapman & Hall. 25s.
- Young, J.** *Reproduction in the Human Female.* Roy. 8vo. Pp. 234. 1911. W. Green. 21s.

BACTERIOLOGY.

- Abderhalden, E.** Defensive Ferments of the Animal Organism against Substances Out of Harmony with the Body, the Blood-plasma and the Cells: their Demonstration, and their Diagnostic Significance for Testing the Functions of Different Organs. Translated by J. O. Gavronsky and W. F. Lanchester. 3rd edn. Cr. 8vo. Pp. 262. 1914. Bale & Danielsson. 7s. 6d.
- Abel, R.** Laboratory Hand-book of Bacteriology. Translated by M. H. Gordon. 2nd edn. Fcap. 8vo. Pp. 261. 1913. Frowde & Hodder. 6s.
- Andrewes, Sir F. W.** Lessons in Disinfection and Sterilization: an Elementary Course of Bacteriology. 2nd edn. Cr. 8vo. Pp. 222. 1907. Churchill. 3s. 6d.
- Browning, C. H.** (edited by). Applied Bacteriology. Studies and Reviews of some Present-day Problems, for the Laboratory Worker, the Clinician, and the Administrator. Cr. 8vo. Pp. 308. 1918. Frowde & Hodder. 7s. 6d.
- Burnet, E.** The Campaign Against Microbes. Translated from the French by E. E. Austen. Demy 8vo. Pp. 260. 1909. Bale & Danielsson. 5s.
- Catechism Series.** Bacteriology. Revised by J. T. Grant. 2nd edn. 2 Parts. Livingstone. 1s. 9d. each.
- Clemsha, W. W.** Bacteriology of Surface Water in the Tropics. Roy. 8vo. Pp. 169. 1912. Thacker. 10s. 6d.
- Coles, A. C.** Clinical Diagnostic Bacteriology, including Serum Diagnosis and Cytodiagnosis. 8vo. Pp. 245. 1904. Churchill. 8s.
- Dudgeon, L. S.** The Bacteriology of Peritonitis. Demy 8vo. Pp. 256. 1905. Constable. 7s. 6d.
- Ellis, D.** Iron Bacteria. Demy 8vo. Pp. 200. 1919. Methuen. 10s. 6d.
- Emery, W. D'E.** Clinical Bacteriology and Hæmatology for Practitioners. 6th edn. Demy 8vo. Pp. 324. 1921. Lewis. 15s.
- Fowler, G. J.** An Introduction to Bacteriological and Enzyme Chemistry. Cr. 8vo. Pp. 336. Arnold. 8s. 6d.
- Gurney-Dixon, S.** The Transmutation of Bacteria. Demy 8vo. Pp. 198. 1919. Cambridge University Press. 10s. 6d.
- Hewlett, R. T.** A Manual of Bacteriology. Clinical and Applied. 7th edn. Post 8vo. Pp. 789. 1921. Churchill. 21s.
- Minett, E. P.** Diagnosis of Bacteria and Blood Parasites. 3rd edn. Cr. 8vo. Pp. 102. 1920. Baillière. 4s. 6d.
- Moor, C. G., and Hewlett, R. T.** Applied Bacteriology: an Elementary Handbook for the use of Students of Hygiene, Medical Officers of Health, and Analysts. 3rd edn. 8vo. Pp. 502. 1906. Baillière. 15s.
- and **Partridge W.** Aids to Bacteriology. 2nd edn. Fcap. 8vo. Pp. 286. 1919. Baillière. 4s.
- Muir, R., and Ritchie, J.** A Manual of Bacteriology. 7th edn. Cr. 8vo. Pp. 688. 1919. Frowde & Hodder. 16s.
- Nuttall, G. H. F.** Blood Immunity and Blood Relationship. A Demonstration of certain Blood-Relationships amongst animals by means of the Precipitin Test for Blood. Including Original Researches by G. S. Graham-Smith and T. S. P. Strangeways. Med. 8vo. Pp. 456. 1904. Cambridge University Press. 20s.

Bacteriology.

- Pallin, W. A.** A Treatise on Epizootic Lymphangitis. 2nd edn. Demy 8vo. Pp. 96. 1904. Constable. 3s. 6d.
- Pittfield, R. L.** A Compend of Bacteriology. 2nd edn. Cr. 8vo. Pp. 280. 1913. Frowde & Hodder. 6s.
- Schottellus, M.** Bacteria. Translated by H. Geoghegan. Cr. 8vo. Pp. 345. 1912. Frowde & Hodder. 8s. 6d.
- Thoinot, L. H., and Masselin, E. J.** Outlines of Bacteriology: A Practical Handbook for Students. Translated from the French by W. St. C. Symmers. Pocket Size. Pp. 330. 1899. Griffin. 10s. 6d.
- Trouessart, E. L.** Microbes, Ferments and Moulds. Cr. 8vo. Pp. 328. 1894. Kegan Paul. 7s. 6d.
- Woodhead, Sir G. S.** Bacteria and their Products. Cr. 8vo. Scott Pub. Co. 5s.
- Wright, Sir A. E.** Handbook of the Technique of the Teat and Capillary Glass Tube and its Application to Medicine and Bacteriology. Demy 8vo. Pp. 224. 1912. Constable. 10s. 6d.
- Studies on Immunisation and their Application to the Diagnosis and Treatment of Bacterial Infections. Demy 8vo. Pp. 506. 1909. Constable. 16s.

MEDICINE.

A. HISTORICAL; BIOGRAPHICAL, Etc.

- Allbutt, Sir T. C.** *The Historical Relations of Medicine and Surgery to the end of the 16th Century.* Cr. 8vo. Pp. 142. 1905. Macmillan. 3s.
- Barrett, Sir J. W.** *The War Work of the Y.M.C.A. in Egypt.* Demy 8vo. Pp. 232. 1919. Lewis. 10s. 6d.
- *A Vision of the Possible: What the R.A.M.C. might become. An Account of some of the Medical Work in Egypt; together with a Constructive Criticism of the R.A.M.C.* Demy 8vo. Pp. 195. 1919. Lewis. 9s.
- and **Deane, P. E.** *The Australian Army Medical Corps in Egypt. An Illustrated and detailed account of the early organisation and work of the Australian Medical Units in Egypt, 1914-15.* Demy 8vo. Pp. 274. 1918. Lewis. 12s. 6d.
- Bennett, A. H.** *English Medical Women. Glimpses of their Work in Peace and War.* Cr. 8vo. Pp. 159. Pitman. 3s. 6d.
- Broadbent, W.** (edited by). *The Writings of the late Sir William Broadbent.* Demy 8vo. Pp. 439. 1908. Frowde & Hodder. 15s.
- Budge, Sir E. A. Wallis.** *Syrian Anatomy, Pathology and Therapeutics, or the Book of Medicines. The Syriac Text, edited with Translation, etc.* 2 vols. 8vo. Pp. 882., 830. 1913. Oxford University Press. 42s.
- Cholmeley, H. P.** *John of Gaddesden and the Rosa Medicinæ.* 8vo. Pp. 184. 1912. Oxford: Clarendon Press. 8s. 6d.
- Crawford, R.** *The King's Evil, with an Appendix of Proclamations and Bibliography.* Med. 8vo. Pp. 188. 1911. Oxford: Clarendon Press. 8s. 6d.
- *Plague and Pestilence in Literature and Art.* Med. 8vo. Pp. 230. 1914. Oxford: Clarendon Press. 14s.
- Douglas, C. C.** *The Laws of Health.* Cr. 8vo. Pp. 272. 1915. Blackie. 5s.
- Edwardes, E. J.** *A Concise History of Small-Pox and Vaccination in Europe.* Cr. 8vo. Pp. 150. 1902. Lewis. 2s. 6d.
- Elliott, J. S.** *Outlines of Greek and Roman Medicine.* Demy 8vo. Pp. 177. 1914. Bale & Danielsson. 7s. 6d.
- Forster, E. L. B.** *How to Become A Woman Doctor.* Pocket size. Pp. 146. 1918. Griffin. 3s.
- Lister, Lord.** *Six Papers. (Early Stages of Inflammation; Anæsthetics; a New Method of Treating Compound Fractures; Antiseptic Surgery; Nature of Fermentation; Present Position of Antiseptic Surgery.) With a Short Biography and Explanatory Notes by Sir R. J. Godlee.* Cr. 8vo. Pp. 202. 1921. Bale & Danielsson. 10s.
- Maccabe, F. F.** *War with Disease.* 5th edn. Cr. 8vo. Pp. 145. 1909. Baillière. 2s. 6d.
- McKay, W. J. S.** *The History of Ancient Gynæcology.* 8vo. Pp. 322. 1901. Baillière. 7s. 6d.
- Mackenzie, Sir J.** *The Future of Medicine.* Demy 8vo. Pp. 238. 1919. Frowde & Hodder. 8s. 6d.

- Mackenzie, W. L.** *Health and Disease.* Fcap. 8vo. Pp. 254. 1919. Williams & Norgate. 2s. 6d.
- Medical Directory, The.** 1921. Roy. 8vo. Pp. 2,036. Dec. 1920. Churchill. 36s.
- Medical Register, The.** 1921. Roy 8vo. Pp. 1,336. Apl. 1921. Constable. 21s.
- Miles, A.** *The Edinburgh School of Surgery before Lister.* Cr. 8vo. Pp. 220. 1918. Black. 6s.
- Milne, J. S.** *Surgical Instruments in Greek and Roman Times.* 8vo. Pp. 200. 1907. Oxford: Clarendon Press. 14s.
- Mitchell, P.** (edited by). *Memoranda on Army General Hospital Administration.* By Various Authors. Demy 8vo. Pp. 115. 1917. Baillière. 5s.
- Moore, N.** *The Study of Medicine in the British Isles. A History.* 8vo. Pp. 210. 1908. Oxford: Clarendon Press. 15s.
- Neuburger, M.** *The History of Medicine.* Translated by E. Playfair. Vol. 1. *Medicine from Remote Antiquity to the Middle Ages.* Cr. 4to. Pp. 404. 1910. Frowde & Hodder. 25s.
- Paget, S.** *Pasteur and after Pasteur.* Cr. 8vo. Pp. 152. 1914. Black. 6s.
- Parker, G.** *The Early History of Surgery in Great Britain: its Organisation and Development.* Cr. 8vo. Pp. 214. 1920. Black. 7s. 6d.
- Payne, J. F.** *English Medicine in Anglo-Saxon Times.* 8vo. Pp. 170. 1904. Oxford: Clarendon Press. 8s. 6d.
- Poland, J.** *A Retrospect of Surgery during the Past Century.* 8vo. Pp. 97. 1901. Murray. 6s.
- Sprigge, S. S.** *Some Considerations of Medical Education.* Cr. 8vo. Pp. 112. 1910. Baillière. 2s. 6d.
- Sutton, J. B.** *Evolution and Disease.* Cr. 8vo. Scott Pub. Co. 5s.
- Tibbetts, T. M.** *The Panel Doctor: His Duties and Perplexities.* 2nd edn. Cr. 8vo. Pp. 68. 1916. Bale & Danielsson. 2s. 6d.
- Walsh, J. J.** *Medieval Medicine.* Cr. 8vo. Pp. 221. 1920. Black. 7s. 6d.
- Warden, A. A.** *An English Handbook to the Paris Medical School.* 2nd edn. 16mo. Pp. 56. 1910. Churchill. 2s.

B. HYGIENE, PUBLIC HEALTH, MEDICAL JURISPRUDENCE, AND TOXICOLOGY.

i. HYGIENE.

- Allan, F. J.** *Aids to Sanitary Science.* 2nd edn. Revised by R. A. Farrar. 18mo. Pp. 286. 1920. Baillière. 4s. 6d.
- Avery, M.** *A Text-book of Hygiene for Training Colleges.* Cr. 8vo. Pp. 340. 1919. Methuen. 7s. 6d.
- Beveridge, W. W. O., and Wanhill, C. F.** *The Sanitary Officers' Handbook of Practical Hygiene.* 2nd edn. Cr. 8vo. Pp. 244. 1912. E. Arnold. 6s.
- Brooke, G. E.** *Marine Hygiene and Sanitation: a Manual for Ships' Surgeons and Port Health Officers.* Demy 8vo. Pp. 418. 1920. Baillière. 15s.
- Cavanagh, F.** *The Care of the Body.* 2nd edn. Demy 8vo. Pp. 308. 1908. Methuen. 10s. 6d.
- Clouston, Sir T. S.** *The Hygiene of Mind. A Treatise on Mental Health.* 7th edn. Demy 8vo. Pp. 308. 1918. Methuen. 10s. 6d.

- Curwen, K. M.** Simple Experimental Hygiene, Physiology and Infant Management, for the Use of School Teachers. Cr. 8vo. Pp. 359. 1918. Griffin. 6s.
- Darling, H. C. R.** Elementary Hygiene for Nurses, and others. 8vo. Pp. 160. 1917. Churchill. 3s.
- Davies, A. M., and Melville, C. H.** A Handbook of Hygiene, 4th edn. Pocket size. Pp. 731. 1913. Griffin. 12s. 6d.
- Drummond, W. B.** An Introduction to School Hygiene. Cr. 8vo. Pp. 247. 1915. Arnold. 3s. 6d.
- Ellis, H.** The Task of Social Hygiene. 3rd edn. Demy 8vo. Pp. 430. 1920. Constable. 8s. 6d.
- Ferguson, R. B.** Aids to Mathematics of Hygiene. 5th edn. Fcap. 8vo. Pp. 198. 1919. Baillière. 3s. 6d.
- Firth, R. H.** The Theory and Practice of Hygiene. 3rd edn. Pp. 1010. 1908. Churchill. 24s.
- Glaister, J.** Manual of Hygiene. For Students and Nurses. 3rd edn. Cr. 8vo. Pp. 435. 1921. Livingstone. 7s. 6d.
- Hale, C. W.** Domestic Science. Cr. 8vo. Part 1. Pp. 340. 1915. 4s. Part 2. Pp. 310. 1916. 5s. 6d. Cambridge University Press.
- Hamer, W. H.** Manual of Hygiene. 8vo. Pp. 634. 1902. Churchill. 12s. 6d.
- Hope, E. W., Browne, E. A., and Sherrington, C. S.** A Manual of School Hygiene. New edn. With six additional chapters on Physiology. Cr. 8vo. Pp. 323. 1913. Cambridge University Press. 6s.
- Hutt, C. W.** Crowley's Hygiene of School Life. 2nd edn. Cr. 8vo. Pp. 444. 1916. Methuen. 6s.
- Jameson, W. W., and Marchant, F. T.** Synopsis of Hygiene. Cr. 8vo. Pp. 404. 1920. Churchill. 18s.
- Kerr, J.** Newsholme's "School Hygiene": The Laws of Health in Relation to School Life. 15th edn. Large Cr. 8vo. Pp. 352. 1918. Allen & Unwin. 4s. 6d.
- Knox, E. B.** Military Sanitation and Hygiene. Fcap. 8vo. Pp. 358. 1911. Baillière. 5s.
- Lelean, P. S.** Sanitation in War. 3rd edn. Fcap. 8vo. Pp. 376. 1919. Churchill. 7s. 6d.
- Lyster, R. A.** School Hygiene. 2nd edn. 8th imp. Cr. 8vo. Pp. 396. 1920. University Tutorial Press. 5s.
- Text-book of Hygiene for Teachers. 5th imp. Cr. 8vo. Pp. 504. 1919. University Tutorial Press. 6s. 6d.
- Macdonald, R. St. J.** Field Sanitation. Cr. 8vo. Pp. 202. 1918. Frowde & Hodder. 6s.
- Macleod, H. W. G.** Methods and Calculations in Hygiene and Vital Statistics. Cr. 8vo. Pp. 158. 1904. Griffin. 6s.
- Melville, C. H.** Military Hygiene and Sanitation. Demy 8vo. Pp. 423. 1912. E. Arnold. 16s.
- Melville-Davison, W.** Some New and Interesting points in Ships' Hygiene. Demy 8vo. Pp. 87. 1911. John Wright. 4s.
- Moor, C. G., and Cooper, E. A.** Field Sanitation. Demy 8vo. Pp. 228. 1918. Baillière. 2s. 6d.
- Notter, J. L., and Firth, R. H.** Hygiene. 9th edn. Cr. 8vo. Pp. 552. 1921. Longmans. 10s. 6d.
- Practical Domestic Hygiene. 6th edn. Cr. 8vo. Pp. 328. 1910. Longmans. 5s.
- Pakes, W. C. C., and Nankivell, A. T.** The Science of Hygiene: A Text-book of Laboratory Practice for Public Health Students. 2nd edn. Cr. 8vo. Pp. 176. 1912. Methuen. 6s.
- Parkes, L. C., and Kenwood, H. R.** Hygiene and Public Health. 6th edn. Demy 8vo. Pp. 797. (1917) 1920. Lewis. 22s. 6d.

Porter, C. *School Hygiene and the Laws of Health: A Text-book for Teachers and Students.* 5th edn. Cr. 8vo. Pp. 382. 1920. Longmans. 6s.

— *Elements of Hygiene and Public Health.* Cr. 8vo. Pp. 426. 1917. Frowde & Hodder. 1917. 12s. 6d.

Ravenhill, A. *Practical Hygiene.* 2nd edn. Cr. 8vo. Pp. 744. 1908. E. J. Arnold. 5s.

Reynolds, E. S. *Hygiene for Beginners.* New imp. Gl. 8vo. Pp. 249. 1919. Macmillan. 3s.

Smith, F. J. *Domestic Hygiene for Nurses, with some Physics and Chemistry.* 2nd edn. Cr. 8vo. Pp. 180. 1915. Churchill. 2s. 6d.

Stevenson, Sir T., and Murphy, Sir S. F. *A Treatise on Hygiene and Public Health.* 3 Vols. Roy. 8vo. Vol. 1. 2nd edn. Pp. 1013. 1896. 28s. Vol. 2. Pp. 847. 1893. 32s. Vol. 3. Pp. 460. 1894. 20s. Churchill.

Sturrock, W. D. *First Principles of Hygiene.* Cr. 8vo. Pp. 252. 1913. Oxford: Clarendon Press. 3s.

Whitelegge, Sir A., and Newman, Sir G. *Hygiene and Public Health.* 13th edn. Fcap. 8vo. Pp. 796. 1917. Cassell. 10s. 6d.

Willoughby, E. F. *Hygiene for Students.* Gl. 8vo. Pp. 584. 1909. Macmillan. 5s.

ii. PUBLIC HEALTH.

Ayling, R. S. *Public Abattoirs, their Planning, Design, and Equipment.* 4to. Pp. 100 and 33 Plates. 1906. Spon. 12s. 6d.

Catechism Series. *Public Health.* 2nd edn. Revised by W. Robertson. 5 Parts. Part 1. Water. Part 2. Air and Ventilation, Warming, Lighting, Climate. Part 3. Sewage and its Treatment. Part 4. Vital Statistics, Dwellings, Meteorology. Part 5. Epidemiology, Food, Disinfectants, Hospitals. 1s. 9d. each. Also in one Volume, cloth. 9s. Livingstone.

Frederick, R. C., and Forster, A. *Public Health Chemical Analysis.* Demy 8vo. Pp. 313. 1920. Constable. 21s.

Glaister, J. *A Text-Book of Public Health.* 2nd edn. Demy 8vo. Pp. 642. 1910. Livingstone. 15s.

Hope, E. W. *A Text-Book of Public Health.* 8th edn. Demy 8vo. Pp. 267. (1915). 1920. Livingstone. 8s. 6d.

Kenwood, H. R. *Public Health Laboratory Work.* (Chemistry). 7th edn. Demy 8vo. Pp. 420. 1920. Lewis. 15s.

McKail, D. *Public Health Chemistry and Bacteriology.* A Practical Manual. Cr. 8vo. Pp. 409. 1912. John Wright. 6s. 6d.

Parsons, H. F. *Isolation Hospitals.* Demy 8vo. Pp. 289. 1914. Cambridge University Press. 15s.

Robertson, W. G. A. *Manual of Public Health.* 4th edn. Cr. 8vo. Pp. 272. 1921. Black. 8s. 6d.

Sommerville, D. *Practical Sanitary Science. A Handbook for the Public Health Laboratory.* 2nd edn. Demy 8vo. Pp. 324. 1914. Baillière. 12s. 6d.

— *Aids to Public Health.* Fcap. 8vo. Pp. 152. 1913. Baillière. 3s.

Stewart, A. W. *A Manual of Practical Chemistry for Public Health Students.* Cr. 8vo. Pp. 88. 1913. Bale & Danielsson. 3s. 6d.

Taylor, A. *The Sanitary Inspector's Handbook.* 5th edn. Cr. 8vo. Pp. 624. 1914. Lewis. 7s. 6d.

iii. WATER ANALYSIS.

Purvis, J. E., and Hodgson, T. R. *The Chemical Examination of Water, Sewage, Foods, and other Substances.* Demy 8vo. Pp. 236. 1914. Cambridge University Press. 10s. 6d.

Stocks, H. B. *Water Analysis, for Sanitary and Technical Purposes.* Cr. 8vo. Pp. 144. 1912. Griffin. 5s.

Thresh, J. C. The Examination of Waters and Water Supplies. 2nd edn. Roy. 8vo. 1913. Churchill. 21s.

—A Simple Method of Water Analysis: for the use of Medical Officers of Health. 9th edn. Fcap 8vo. Pp. 72. 1919. Churchill. 3s.

iv. FOOD ANALYSIS AND INSPECTION.

Blyth, A. W., and M. W. Foods: their Composition and Analysis. 6th edn. Large 8vo. Pp. 644. 1909. Griffin. 21s.

Burrell, B. A. An Elementary Course on Food-Testing. Cr. 8vo. Pp. 100. 1910. Baillière. 2s. 6d.

Clayton, E. G. A Compendium of Food Microscopy: with Sections on Drugs, Water, and Tobacco. Demy 8vo. Pp. 472. 1909. Baillière. 12s.

Greenish, H. G. The Microscopical Examination of Foods and Drugs. In the Entire, Crushed, and Powdered States. 2nd edn. Roy. 8vo. Pp. 406. 1910. Churchill. 12s. 6d.

— and **Collin, E.** An Anatomical Atlas of Vegetable Powders: an Indispensable Aid to the Microscopic Analysis of Powdered Foods and Drugs. 4to. Pp. 288. 1904. Churchill. 12s. 6d.

Howarth, W. J. Meat Inspection Problems, with special reference to the Developments of Recent years. Demy 8vo. Pp. 152. 1918. Baillière. 7s. 6d.

Lane-Clayton, J. E. Milk and Its Hygienic Relations. 8vo. Pp. 356. 1918. Longmans. 9s.

Litteljohn, A. R. Meat and Its Inspection. A Practical Guide for Meat Inspectors, Students, and Medical Officers of Health. Demy 8vo. Pp. 412. 1911. Baillière. 12s.

Mitchell, C. A. Flesh Foods: with Methods for their Chemical, Microscopical, and Bacteriological Examination: for Medical Men, Analysts, and Inspectors. Cr. 8vo. Pp. 351. 1900. Griffin. 10s. 6d.

Moor, C. G., and Partridge, W. Aids to the Analysis of Food and Drugs. 4th edn. Fcap. 8vo. Pp. 280. 1918. Baillière. 4s. 6d.

Ostertag, R. Handbook of Meat Inspection. Translated by E. V. Wilcox. 4th edn. Roy. 8vo. Pp. 942. 1913. Baillière. 45s.

Parry, E. J. Food and Drugs. 2 Vols. Roy. 8vo. 1911. Vol. 1. The Analysis of Food and Drugs—Chemical and Microscopical. Pp. 724. 23s. Vol. 2. The Sale of Food and Drugs Acts, 1875—1907. Pp. 184. 8s. 6d. Scott, Greenwood.

Pearmain, T. H., and Moor, C. G. The Analysis of Food and Drugs. Fcap. 8vo. Part 1. Milk and Milk Products. Pp. 140. 1897. Part 2. The Chemical and Biological Examination of Water. Pp. 178. 1899. Baillière. 6s. each.

Robertson, W. Meat and Food Inspection. A Handbook for Medical Officers of Health and Sanitary Inspectors. 2nd edn. 8vo. Pp. 306. 1920. Baillière. 18s.

Savage, W. G. Milk and the Public Health. 8vo. Pp. 478. 1912. Macmillan. 12s. 6d.

—Food Poisoning and Food Infections. Demy 8vo. Pp. 258. 1919. Cambridge University Press. 15s.

—The Bacteriological Examination of Food and Water. 2nd edn. Demy 8vo. Pp. 200. 1916. Cambridge University Press. 10s.

Thresh, J. C., and Porter, A. E. Preservatives in Food, and Food Examination. Roy. 8vo. Pp. 499. 1906. Churchill. 16s.

Wagner, E. Recipes for the Preserving of Fruit, Vegetables and Meat. Translated from the German. Cr. 8vo. Pp. 125. 1908. Scott, Greenwood. 6s.

Walker, A. H. The Food Inspector's Encyclopædia. Demy 8vo. Pp. 310. 1912. Baillière. 8s. 6d.

—The Inspection of Fish, Poultry, Game, Fruit, Nuts, and Vegetables. Demy 8vo. Pp. 192. 1911. Baillière. 6s.

Walley's Meat Inspection. 5th edn. Revised and enlarged by S. Stockman. Cr. 8vo. Pp. 308. 1909. W. Green. 10s. 6d.

v. EPIDEMICS, MEDICAL GEOGRAPHY AND CLIMATOLOGY.

Anderson, D. E. The Epidemics of Mauritius. Demy 8vo. Pp. 328. 1918. Lewis. 16s.

Bahr, P. H. A Report on Researches on Sprue in Ceylon, 1912—1914. Roy. 8vo. Pp. 163. 1915. Cambridge University Press. 9s.

Begg, C. Sprue: its Diagnosis and Treatment. Demy 8vo. Pp. 128. 1912. John Wright. 6s.

Clemow, F. G. The Geography of Disease. Cr. 8vo. Pp. 624. 1903. Cambridge University Press. 15s.

Giles, G. M. The Outlines of Tropical Climatology. Med. 8vo. Pp. 113. 1904. Bale and Danielsson. 5s.

— Climate and Health in Hot Countries, and the Outlines of Tropical Climatology. Med. 8vo. Pp. 130. 1904. Bale & Danielsson. 7s. 6d.

Gordon, W. The Place of Climatology in Medicine. Demy 8vo. Pp. 67. 1913. Lewis. 3s. 6d.

— The Influence of Strong Prevalent Rain-bearing Winds on the Prevalence of Phthisis. Med. 8vo. Pp. 122. 1910. Lewis. 7s. 6d.

Hutchinson, J. On Leprosy and Fish Eating. Demy 8vo. Pp. 444. 1906. Constable. 12s. 6d.

Jefferys, W. H., and Maxwell, J. L. The Diseases of China, including Formosa and Korea. 8vo. Pp. 734. 1911. Bale and Danielsson. 25s.

Johnston-Lavis, H. J. On the Effects of Volcanic Action in the Production of Epidemic Diseases in the Animal and the Vegetable Creation, and in the Production of Hurricanes and Abnormal Atmospheric Vicissitudes. Cr. 8vo. Pp. 31. 1914. Bale & Danielsson. 3s.

vi. TROPICAL HYGIENE.

Blackham, R. J. Aids to Tropical Hygiene. New edition in preparation. Baillière.

Boyce, Sir R. W. Health Progress and Administration of the West Indies. 2nd edn. Med. 8vo. Pp. 350. 1910. Murray. 10s. 6d.

Field, A. "Verb. Sap." on going to West Africa, Northern and Southern Nigeria and the Coasts. 3rd edn. Cr. 8vo. Pp. 251. 1906. Bale and Danielsson. 2s. 6d.

Garry, T. G. Some Factors Influencing Health in Tropical and Sub-Tropical Countries. Cr. 8vo. Pp. 96. 1911. Bale & Danielsson. 2s. 6d.

Harston, G. M. The Care and Treatment of European Children in the Tropics. Cr. 8vo. Pp. 249. 1912. Baillière. 8s. 6d.

Lukis, Sir P., and Blackham, R. J. Tropical Hygiene for Residents in Tropical and Sub-Tropical Climates. 3rd edn. Cr. 8vo. Pp. 295. 1915. Thacker. 5s.

Moore, Sir W. Manual of Family Medicine and Hygiene for India. 9th edn. Rewritten by C. A. Sprawson. Demy 8vo. Pp. 686. 1921. Churchill. 10s. 6d.

Muirhead, W. A. Practical Tropical Sanitation. Demy 8vo. Pp. 285. 1914. Murray. 15s.

Neligan, A. R. Hints for Residents and Travellers in Persia. Cr. 8vo. Pp. 202. 1914. Bale and Danielsson. 5s.

Ryan, J. C. Health Preservation in West Africa. Cr. 8vo. Pp. 108. 1914. Bale and Danielsson. 5s.

Simpson, W. J. Tropical and Sub-tropical Climates, and the Principles of Personal Hygiene in them, as applied to Europeans. Demy 8vo. Pp. 400. 1908. Bale and Danielsson. 15s.

— Maintenance of Health in the Tropics. 2nd edn. Cr. 8vo. Pp. 186. 1916. Bale and Danielsson. 3s. 6d.

Strachan, H. *Lessons in Elementary Tropical Hygiene.* 2nd edn. Small Cr. 8vo. Pp. 128. 1918. Constable. 2s. 6d.

vii. SANITARY LAW.

Critchley, H. *Aids to the Study of Sanitary Law.* Fcap. 8vo. Pp. 88. 1904. Baillière. 3s.

Ham, B. B. *A Handbook of Sanitary Law, for the use of Candidates for Public Health Qualifications.* 8th edn. Fcap. 8vo. Pp. 240. 1920. Lewis. 5s.

Hime, T. W. *Practical Guide to the Public Health Acts: for Officers of Health and Inspectors of Nuisances.* 2nd edn. Pp. 1,096. 1901. Baillière. 15s.

Porter, C. *Sanitary Law in Question and Answer for the use of Students of Public Health.* 2nd edn. Cr. 8vo. Pp. 180. 1920. Longmans. 6s. 6d.

Robertson, W., and McKendrick, A. *Public Health Laws. A Synopsis of the Acts of Parliament bearing on Public Health in the United Kingdom.* Cr. 8vo. Pp. 397. 1912. Livingstone. 5s.

—**and Porter, C.** *Sanitary Law and Practice. A Handbook for Students of Public Health and Others.* 4th edn. 8vo. Pp. 774. 1917. Sanitary Publishing Co. 15s.

viii. MEDICAL JURISPRUDENCE.

Atkinson, S. B. *The Law in General Medical Practice, or Clinical Jurisprudence.* Cr. 8vo. Pp. 139. 1908. Frowde and Hodder. 5s.

Barnett, H. N. *Legal Responsibility of the Drunkard.* Cr. 8vo. Pp. 76. 1908. Baillière. 2s. 6d.

Brend, W. A. *A Handbook of Medical Jurisprudence and Toxicology, for the Use of Students and Practitioners.* 3rd edn. Pocket size. Pp. 324. 1919. Griffin. 10s. 6d.

—**An Enquiry into the Statistics of Deaths from Violence and Unnatural Causes in the United Kingdom.** Demy 8vo. Pp. 84. 1915. Griffin. 4s.

Brockbank, E. M. *Life Insurance in General Practice.* Cr. 8vo. Pp. 302. 1908. Frowde and Hodder. 7s. 6d.

Brouardel, P., and Benham, F. L. *Death and Sudden Death.* 2nd edn. 8vo. Pp. 350. 1902. Baillière. 10s. 6d.

Buchanan, R. J. M. *Text-Book of Forensic Medicine and Toxicology.* 8th edn. 8vo. Pp. 428. 1920. Livingstone. 10s.

Bucknill, J. C. *The Care of the Insane and their Legal Control.* Cr. 8vo. Pp. 144. 1880. Macmillan. 3s. 6d.

Catechism Series. *Forensic Medicine.* 2nd edn. Revised by A. Allison. Livingstone. 1s. 9d.

Collie, Sir J. *Malingering.* 2nd edn. Demy 8vo. Pp. 680. 1917. Arnold. 18s.

—**Medico-Legal Examinations and the Workmen's Compensation Act., 1906.** Demy 8vo. Pp. 132. 1912. Baillière. 5s.

Glaister, J. *A Text-Book of Medical Jurisprudence and Toxicology.* 4th edn. Demy 8vo. Pp. 917. 1921. Livingstone. 30s.

Hawthorne, C. O. *Forensic Medicine.* 3rd edn. Cr. 8vo. Pp. 352. 1912. Arnold. 7s. 6d.

Jones, A. B., and Llewellyn, J. L. *Malingering, or the Simulation of Disease.* With a chapter by W. M. Beaumont on Malingering in Relation to the Eye. Roy. 8vo. Pp. 708. 1917. Heinemann. 25s.

Knocker, D. (edited by). *Accidents in their Medico-Legal Aspect. A Practical Guide, for the expert witness, solicitor, and barrister, consisting of a series of articles by leading medical and surgical authorities as to the effects of injuries to the various parts of the human body, with special reference to the Workmen's Compensation Act, etc.* Roy. 8vo. Pp. 1,294. 1910. Also Thin paper edition. 1912. Baillière. 30s. each.

- McKendrick, A.** *Malingering and its Detection under the Workmen's Compensation and other Acts.* Cr. 8vo. Pp. 96. 1912. Livingstone. 1s. 6d.
- *Back Injuries and their Significance under the Workmen's Compensation and other Acts.* Cr. 8vo. Pp. 182. 1916. Livingstone. 2s. 6d.
- Mann, J. D.** *Forensic Medicine and Toxicology.* Revised and Edited by W. A. Brend. 5th edn. 8vo. Pp. 750. 1914. Griffin. 21s.
- Murrell, W., and Robertson, W. G. A.** *Aids to Forensic Medicine and Toxicology.* 8th edn. Fcap. 8vo., Pp. 164. 1914. Baillière. 3s.
- Robertson, W. G. A.** *Manual of Medical Jurisprudence and Toxicology.* 4th edn. Cr. 8vo. Pp. 426. 1921. Black. 12s. 6d.
- Smith, F. J.** *Lectures on Medical Jurisprudence and Toxicology.* 2nd edn. Cr. 8vo. Pp. 480. 1908. Churchill. 8s. 6d.
- *Law for Medical Men. A book for Practitioners, containing Abstracts from Acts of Parliament interesting to Medical Men.* 8vo. Pp. 414. 1913. Churchill. 10s. 6d.
- Sutherland, W. D.** *Blood Stains: their Detection and the Determination of their Source. A Manual for the Medical and Legal Professions.* 8vo. Pp. 192. 1907. Baillière. 10s. 6d.
- Taylor, A. S.** *The Principles and Practice of Medical Jurisprudence.* Edited by F. J. Smith. With a Section on Indian Medical Jurisprudence by W. J. Buchanan. 7th edn. 2 Vols. Roy. 8vo. Pp. 1860. 1920. Churchill. 63s.
- Wellington, R. H.** *The King's Coroner. Vol. 1. A Complete Collection of the Statutes relating to the Office, with a short history of the same.* Pp. 300. 1905. 8s. 6d. Vol. 2. *The Procedure and Practice in his Judicial and Ministerial Capacities.* Pp. 164. 1906. 7s. 6d. Baillière.
- ix. TOXICOLOGY.**
- Blyth, A. W., and M. W.** *Poisons: their Effects and Detection.* 5th edn. Demy 8vo. Pp. 780. 1920. Griffin. 36s.
- Catechism Series.** *Toxicology.* 2nd edn. Revised by A. Allison. Livingstone. 1s. 9d.
- Gadd, H.** *The Poisons and Pharmacy Act, 1908. With Notes.* Cr. 8vo. Pp. 56. 1909. Baillière. 1s.
- Glaister, J.** *Poisoning by Arseniuretted Hydrogen or Hydrogen Arsenide. Its Properties, Sources, Relations to Scientific and Industrial Operations, Symptoms, Post-mortem Appearances, Treatment, and Prevention.* Cr. 8vo. Pp. 290. 1908. Livingstone. 5s.
- **And Logan, D. D.** *Gas Poisoning in Mining and other Industries.* Demy 8vo. Pp. 556. 1914. Livingstone. 12s.
- Legge, T. M., and Goadby, K. W.** *Lead Poisoning and Lead Absorption.* Demy 8vo. Pp. 308. 1912. E. Arnold. 12s. 6d.
- Murrell, W.** *What to Do In Cases of Poisoning.* 11th edn. Roy. 32mo. Pp. 283. 1916. Lewis. 3s. 6d.
- Oliver, Sir T.** *Lead Poisoning, from the Industrial, Medical and Social Points of View.* Cr. 8vo. Pp. 304. 1914. Lewis. 3s.
- Oppenheimer, C.** *Toxines and Anti-Toxines.* Translated by C. A. Mitchell. Cr. 8vo. Pp. 282. 1906. Griffin. 9s.
- Rambousek, J.** *Industrial Poisoning.* Translated by T. M. Legge. Demy 8vo. Pp. 376. 1913. E. Arnold. 14s.

C. PATHOLOGY.

i. PATHOLOGICAL ANATOMY, HISTOLOGY, LABORATORY METHODS.

Cambridge, P. J. The Faces of Children and Adults: their Examination and Diagnostic Significance, with Indications for Treatment. Demy 8vo. Pp. 516. 1916. John Wright. 17s. 6d.

Campbell, A. W. Histological Studies on the Localisation of Cerebral Function. Med. 4to. Pp. 380. 1905. Cambridge University Press. 22s.

Fletcher, C., and McLean, H. The Link between the Practitioner and the Laboratory. A Guide to the Practitioner in his Relations with the Pathological Laboratory. Cr. 8vo. Pp. 91. 1920. Lewis. 4s. 6d.

Hall, J. W., and Herxheimer, G. Methods of Morbid Histology and Clinical Pathology. 8vo. Pp. 306. 1905. W. Green. 9s.

Jaksch, V. Clinical Diagnosis. The Chemical, Microscopical, and Bacteriological Evidence of Disease. Translated by Sir A. E. Garrod. 5th edn. Large 8vo. Pp. 628. 1905. Griffin. 30s.

Lazarus-Barlow, W. S. The Elements of Pathological Anatomy and Histology for Students. Roy. 8vo. Pp. 718. 1903. Churchill. 24s.

Leyton, A. S. F. The Essentials of Morbid Histology. For the use of Students. 8vo. Pp. 236. 1912. Longmans. 9s.

ii. EXAMINATION OF THE URINE.

Bedford, C. H. A Clinical Handbook of Urine Analysis. 2nd edn. Cr. 8vo. Pp. 181. 1904. W. Green. 6s. 6d.

Carruthers, T. Urine Examination Made Easy. A Plan of Examination, with Common Tests fully described. 4th edn. Cr. 8vo. Pp. 48. 1921. Churchill. 2s.

Hewat, A. F. The Examination of the Urine and other Clinical Side-room Methods. 6th edn. 1917. Livingstone. 2s. 6d.

Mann, J. D. The Physiology and Pathology of the Urine. 2nd edn. 8vo. Pp. 338. 1913. Griffin. 7s. 6d.

iii. POST-MORTEM EXAMINATION.

Beattie, J. M. Post-Mortem Methods. Demy 8vo. Pp. 242. 1915. Cambridge University Press. 12s.

Box, C. R. Post-Mortem Manual. A Handbook of Morbid Anatomy and Post-Mortem Technique. 2nd edn. Cr. 8vo. Pp. 370. 1919. Churchill. 10s. 6d.

Gibson, A. G. A Handbook for the Post-Mortem Room. 16mo. Pp. 148. 1911. Frowde and Hodder. 4s. 6d.

Kelynack, T. W. The Pathologist's Handbook: A Manual for the Post-Mortem Room. Fcap. 8vo. Pp. 200. 1899. Churchill. 4s. 6d.

Miller, J. Post-Mortem Technique and Practical Pathology. A Text-book for Students and Practitioners. Cr. 8vo. Pp. 444. 1914. Black. 12s. 6d.

Rolleston, Sir H. D., and Kanthack, A. A. Manual of Practical Morbid Anatomy. Cr. 8vo. Pp. 259. 1894. Cambridge University Press. 7s.

Shennan, T. Post-Mortems and Morbid Anatomy. Roy. 8vo. Pp. 512. 1912. Constable. 18s.

Thursfield, M., and Branson, W. P. S. Medical Morbid Anatomy and Pathology. Cr. 8vo. Pp. 270. 1909. Lewis. 6s.

iv. GENERAL PATHOLOGY.

Adami, J. G., and McCrae, J. A. Text-book of Pathology. 2nd edn. 8vo. Pp. 870. 1914. Macmillan. 31s. 6d.

- Beattie J. M., and Dickson, W. E. C.** A Text-book of General Pathology for the use of Students and Practitioners. 2nd edn. 8vo. Pp. 541. 1921. Heinemann. 31s. 6d.
- Burnford, J. M.** Applied Pathology. A Guide to the Application of Modern Pathological Methods to Diagnosis and Treatment. Demy 8v. Pp. 396. 1913. University of London Press. 10s. 6d.
- Campbell, H.** Aids to Pathology. 4th edn. Fcap. 8vo. Pp. 256. 1921. Baillière. 4s. 6d.
- Catechism Series.** Pathology. 2nd edn. 5 Parts. Revised by J. Miller. Part 1. Animal Parasites, Degenerations and Infiltrations, Hyperaemia Oedema, Hæmorrhage, Necrosis, Gangrene, Thrombosis. Part 2. Embolism, Tumours. Part 3. Diseases of Vessels, of Ductless Glands, Heart, Blood. Part 4. Inflammation, Phagocytosis, Infection, Fever, Immunity, Diseases of the Lungs. Part 5. Diseases of Pleura, Abdomen, Brain and Nerves. 1s. 9d. each, also in one volume, cloth, 9s. Livingstone.
- French, H.** Medical Laboratory Methods and Tests. 3rd edn. Fcap. 8vo. Pp. 210. 1913. Baillière. 6s.
- Green, T. H.** A Manual of Pathology and Morbid Anatomy. 12th edn. Revised by W. C. Bosanquet and W. W. Topley. Demy 8vo. Pp. 613. (1918). 1920. Baillière. 22s. 6d.
- Herschell, G., and Weiss, R.** Elementary Clinical Pathology for Nurses. 2nd edn. 1913. Churchill. 1s.
- Hewlett, R. T.** Pathology: General and Special, for Students of Medicine. 4th edn. Post 8vo. Pp. 640. 1917. Churchill. 12s. 6d.
- Horder, Sir T. J.** Clinical Pathology, with a Full Account of Vaccine Therapy. Demy 8vo. Pp. 224. 1910. Frowde and Hodder. 8s. 6d.
- Lazarus-Barlow, W. S.** A Manual of General or Experimental Pathology for Students and Practitioners. 2nd edn. Roy. 8vo. Pp. 736. 1904. Churchill. 21s.
- Panton, P. N.** Clinical Pathology. 8vo. Pp. 456. 1913. Churchill. 14s.
- Pembrey, M. S., and Ritchie, J.** (edited by). A Text-book of General Pathology. Demy 8vo. Pp. 785. 1913. Arnold. 21s.
- Woodhead, Sir G. S.** Practical Pathology. A Manual for Students and Practitioners. 4th edn. 8vo. Pp. 820. 1910. Frowde and Hodder. 17s.
- v. SPECIAL PATHOLOGY.**
- Adami, J. G.** Inflammation. An Introduction to the Study of Pathology. 4th edn. Ex. Cr. 8vo. Pp. 272. 1909. Macmillan. 6s. 6d.
- Beattie, J. M., and Dickson, W. E. C.** Text-Book of Special Pathology. New edition in preparation. Heinemann.
- Garrod, Sir A. E.** In-born Errors of Metabolism. Cr. 8vo. Pp. 174. 1909. Frowde and Hodder. 3s. 6d.
- Haig, A.** Uric Acid as a Factor in the Causation of Disease. 7th edn. 8vo. Pp. 952. 1908. Churchill. 14s.
- Uric Acid in the Clinic. 8vo. Pp. 312. 1910. Churchill. 5s.
- Uric Acid: an Epitome of the Subject. 2nd edn. 8vo. Pp. 170. 1906. Churchill. 2s. 6d.
- Macgregor, J. M.** A Contribution to the Pathology of the Endometrium. 8vo. Pp. 56. 1905. W. Green. 10s. 6d.
- Paton, D. N.** The Nervous and Chemical Regulations of Metabolism. 8vo. Pp. 228. 1913. Macmillan. 6s.
- Robertson, A. W.** Studies in Electro-Pathology. 8vo. Pp. 312. 1918. Routledge. 12s. 6d.
- The Treatment of Inflammation and Sepsis by Lipoid-Paraffin Dressings. Cr. 8vo. Pp. 83. 1919. Routledge. 3s. 6d.

Walker, E. W. A. *The General Pathology of Inflammation, Infection, and Fever.* Cr. 8vo. Pp. 271. 1904. Lewis. 4s. 6d.

vi. **HÆMATOLOGY.**

Barcroft, J. *The Respiratory Function of the Blood.* Roy. 8vo. Pp. 330. 1914. Cambridge University Press. 21s.

Buckmaster, G. A. *The Morphology of Normal and Pathological Blood.* Demy 8vo. Pp. 244. 1906. Murray. 10s. 6d.

Burnham, F. W. E. *Hæmocytcs and Hæmic Infections. A Handbook for Students and Practitioners.* Roy. 8vo. Pp. 462. 1913. Lewis. 15s.

Gruener, O. C. *The Biology of the Blood-Cells: with a Glossary of Hæmatological Terms. For the use of Practitioners of Medicine.* Large 8vo. Pp. 392. 1913. John Wright. 21s.

Jones, C. P. *Blood Pictures: An Introduction to Clinical Hæmatology.* 2nd edn. Demy 8vo. Pp. 91. 1921. John Wright. 6s. 6d.

Oliver, G. *A Contribution to the Study of the Blood and Blood Pressure.* Demy 8vo. Pp. 288. 1901. Lewis. 7s. 6d.

— *Studies in Blood Pressure, Physiological and Clinical.* 3rd edn. Edited by W. D. Halliburton. Demy 8vo. Pp. 263. 1916. Lewis. 9s.

Pappenheim, A. *Clinical Examination of the Blood and its Technique. A Manual for Students and Practitioners.* Translated from the German by R. Donaldson. Cr. 8vo. Pp. 87. 1914. John Wright. 3s. 6d.

D. PRACTICE OF MEDICINE.

i. **GENERAL TREATISES.**

Aitchison, R. S. *A Medical Handbook for the use of Practitioners and Students.* 5th edn. Pocket size. Pp. 390. 1920. Griffin. 10s. 6d.

Allbutt, Sir T. C., and Rolleston, Sir H. D. (edited by), *A System of Medicine.* By Many Writers. 2nd edn. 9 Vols. 8vo. Vol. 1. *Prolegomena and Infectious Diseases.* Pp. 1,228. 1911. 31s. 6d. Vol. 2. Part 1. *Infectious Diseases (contd.), Intoxications.* Pp. 1,098. 1912. 31s. 6d. Vol. 2. Part 2. *Tropical Diseases and Animal Parasites.* Pp. 1,074. 1914. 31s. 6d. Vol. 3. *Certain General Diseases, Diseases of the Stomach.* Pp. 1,054. 1913. 31s. 6d. Vol. 4. Part 1. *Diseases of the Liver, Pancreas, and Ductless Glands.* Pp. 778. 1914. 31s. 6d. Vol. 4. Part 2. *Diseases of the Nose, Pharynx, Larynx, Trachea and Ear.* Pp. 584. 1909. 31s. 6d. Vol. 5. *Diseases of the Respiratory System,*

Disorders of the Blood. Pp. 984. 1912. 31s. 6d. Vol. 6. *Diseases of the Heart and Blood Vessels.* Pp. 878. 1910. 31s. 6d. Vol. 7. *Diseases of the Muscles, the Trophoneuroses, Diseases of the Nerves, Vertebral Column, and Spinal Cord.* Pp. 916. 1911. 31s. 6d. Vol. 8. *Diseases of the Brain and Mental Diseases.* Pp. 1,084. 1911. 31s. 6d. Vol. 9. *Diseases of the Skin.* General Index. Pp. 887. 1920. 31s. 6d. Macmillan.

Ballantyne, J. W. (edited by). *Encyclopædia Medica.* 2nd edn. 15 Vols. Roy. 8vo. Vol. 1. Pp. 759. 1915. Vol. 2. Pp. 685. 1915. Vol. 3. Pp. 680. 1916. Vol. 4. Pp. 693. 1916. Vol. 5. Pp. 774. 1917. Vol. 6. Pp. 666. 1919. Vol. 7. Pp. 618. 1921. Vols. 8 to 15 in preparation. W. Green. 30s. per Vol.

Bristowe, J. S. *A Treatise on the Theory and Practice of Medicine.* 7th edn. Demy 8vo. Pp. 1,285. 1890. Murray. 21s.

Medicine.

- Carter, A. H.** *Elements of Practical Medicine.* 11th edn. Revised by A. G. Gibson. Cr. 8vo. Pp. 718. 1920. Lewis. 16s.
- Catechism Series.** *Medicine.* 2nd edn. 5 parts. Revised by W. R. Jack and J. Henderson. Part 1. *Infectious Diseases.* Part 2. *Disorders of Nutrition, Kidneys, Blood, Ductless Glands, etc.* Part 3. *Diseases of the Alimentary Tract.* Part 4. *Diseases of the Respiratory and Circulatory Systems.* Part 5. *Diseases of the Nervous System.* 1s. 9d. each, also in one volume, cloth, 9s. Livingstone.
- Charteris, M. and F. J.** *The Practice of Medicine.* 9th edn. Cr. 8vo. Pp. 700. 1909. Churchill. 9s. 6d.
- Comrie, J. D.** (edited by). *Black's Medical Dictionary.* 6th edn. Demy 8vo. Pp. 858. 1916. Black. 15s.
- Craig, M.** *Psychological Medicine.* 3rd edn. 8vo. Pp. 496. 1917. Churchill. 15s.
- Dieulafoy, G.** *A Text-Book of Medicine.* 2nd English Translation from the 16th French edition by V. E. Collins, and J. Alexander. 2 Vols. Roy. 8vo. Pp. 2,180. 1912. Baillière. 30s.
- Drummond, W. B.** (edited by). *Dent's Medical Dictionary.* Med. 8vo. Pp. 696. Dent. 10s. 6d.
- Dutton, T.** *Kimpton's Pocket Medical Dictionary, for Practitioners, Students, and Nurses.* 2nd edn. Fcap. 8vo. Pp. 220. 1915. Kimpton. 3s. 6d.
- Evans, W.** *Medical Science of To-Day.* Ex. Cr. 8vo. Pp. 324. 1912. Seeley. 7s. 6d.
- Fagge, C. H., and Pye-Smith, P. H.** *A Text-book of Medicine.* 2 Vols. 4th edn. Roy. 8vo. Pp. 2,200. 1901-2. Churchill. 42s.
- Fleming, R. A.** *A Short Practice of Medicine.* 3rd edn. 8vo. Pp. 694. 1919. Churchill. 21s.
- Gibson, G. A.** (edited by). *A Text Book of Medicine.* By British Teachers. 2 Vols. Roy. 8vo. 1901. Vol. 1. Pp. 848. Vol. 2. Pp. 920. Frowde and Hodder. 15s. each.
- Grimshaw, J.** *The People's Medical Guide.* 8vo. Pp. 860. 1912. Churchill. 10s. 6d.
- Hoblyn, R. D.** *Dictionary of Terms used in Medicine and the Collateral Sciences.* Revised by J. A. P. Price. 15th edn. Small Post 8vo. Pp. 878. Bell. 10s. 6d.
- Horder, Sir T. J.** *Medical Notes.* Pott 8vo. Pp. 124. 1921. Frowde and Hodder. 6s.
- Hudson, B.** *Aids to Medicine.* 2nd edn. Fcap. 8vo. Pp. 332. (1916). 1921. Baillière. 4s.
- Hurst, A. F.** *Medical Diseases of the War.* 2nd edn. Demy 8vo. Pp. 326. 1918. Arnold. 12s. 6d.
- Jack, W. R.** (Late Winceler). *Hand-book of Medicine.* 6th edn. Cr. 8vo. Pp. 568. 1920. Livingstone. 12s. 6d.
- Medical Annual, The,** 1921. A Year Book of Treatment and Practitioner's Index. Being a Review of the World's Progress in Medicine and Surgery. Arranged in Alphabetical order for Easy Consultation. 39th year. Associate Editors: Medicine, C. F. Coombs; Surgery, A. R. Short. Issued Annually. 8vo. Pp. 724. May. John Wright. 20s.
- Monro, T. K.** *Manual of Medicine.* 4th edn. Demy 8vo. Pp. 1,069. (1917). 1921. Baillière. 21s.
- Murphy, J. K.** (edited by). *The Practitioner's Encyclopædia of Medicine and Surgery.* In all their Branches. 2nd edn. Cr. 4to. Pp. 1,463. 1913. Frowde and Hodder. 35s.

- Osler, Sir W.** *Aequanimitas. With other Addresses to Medical Students, Nurses, and Practitioners of Medicine.* 2nd edn. 4th imp. Post 8vo. Pp. 485. 1920. Lewis. 10s.
- and McCrae, T.** (edited by). *A System of Medicine.* 5 Vols. 2nd edn. Roy. 8vo. 1915. Vol. 1. Bacterial Diseases; Infectious Diseases, Non-Bacterial Fungus Infections; The Mycoses. Pp. 1,093. Vol. 2. Protozoal Infections; Metazoan Infections; Intoxicants; Diseases of Metabolism; Diseases of the Respiratory System, etc. Pp. 1,144. Vol. 3. Diseases of the Digestive System; Diseases of the Urinary System. Pp. 1,090. Vol. 4. Diseases of the Circulatory System; of the Blood; of the Lymphatic System; of the Ductless Glands; etc. Pp. 1,076. Vol. 5. Diseases of the Nervous System; of the Locomotor System. Pp. 1,092. Frowde and Hodder. £7 15s. the set. or 35s. each Vol.
- Quain, Sir R.** *Dictionary of Medicine.* By Various Writers. Edited by H. M. Murray. Assisted by J. Harold and W. C. Bosanquet. 3rd edn. 8vo. Pp. 1,910. 1910. Longmans. 25s.
- Roberts, F. T.** *The Theory and Practice of Medicine.* 10th edn. Large 8vo. Pp. 1,449. 1909. Lewis. 12s. 6d.
- Scott, T. B.** *Modern Medicine and Some Modern Remedies.* 2nd edn. Cr. 8vo. Pp. 213. 1919. Lewis. 6s. 6d.
- Squire, J. E.** *Medical Hints.* Fcap. 8vo. Pp. 128. 1915. Frowde and Hodder. 3s. 6d.
- Stedman, T. L.** *A Practical Medical Dictionary of words used in Medicine with their derivation and pronunciation, including Dental, Veterinary, Chemical, Botanical, Electrical, Life Insurance, and other special terms; Anatomical Titles, Pharmaceutical Preparations, Synonyms.* 4th edn. Med. 8vo. Pp. 1,113. 1917. Frowde and Hodder. 25s.
- Taylor, Sir F.** *The Practice of Medicine.* 11th edn. 8vo. Pp. 1,108. 1918. Churchill. 24s.
- Thomson, S., and Steele, J. C.** *A Dictionary of Domestic Medicine and Household Surgery.* Revised by A. Westland. 39th edn. Roy. 8vo. Pp. 790. 1911. Griffin. 9s.
- Tidy, H. L.** *A Synopsis of Medicine: for Practitioners and Students.* Cr. 8vo. Pp. 967. 1920. John Wright. 21s.
- Whitla, Sir W.** *A Manual of the Practice and Theory of Medicine.* 2 Vols. Cr. 8vo. Pp. 1,900. 1908. Baillière. 25s.
- Williams, L.** *Minor Maladies and their Treatment.* 4th edn. Pp. 412. (1918). 1920. Baillière. 8s. 6d.
- Woodwark, A. S.** *Manual of Medicine.* Cr. 8vo. Pp. 420. 1912. Frowde and Hodder. 12s. 6d.
- ii. CLINICAL MEDICINE AND DIAGNOSIS.**
- Brand, A. T., and Keith, J. R.** *Clinical Memoranda for General Practitioners.* Cr. 8vo. Pp. 218. 1909. Baillière. 3s. 6d.
- Burnet, J.** *The Pocket Clinical Guide.* 2nd edn. Fcap. 16mo. Pp. 147. 1915. Black. 3s. 6d.
- Bury, J.** *Clinical Medicine: A Practical Handbook for Practitioners and Students.* 3rd edn, Revised by the Author. Assisted by A. Ramsbottom. Large 8vo. Pp. 552. 1912. Griffin. 21s.
- Crookshank, F. G.** *Essays and Clinical Studies.* Demy 8vo. Pp. 252. 1911. Lewis. 7s. 6d.
- French, H.** (edited by). *An Index of Differential Diagnosis of Main Symptoms.* By Various Contributors. 3rd edn. Large 8vo. Pp. 931. (1917). 1920. John Wright. 42s.
- Gee, S. J.** *Medical Lectures and Clinical Aphorisms.* With Recollections by J. W. Legg. 4th edn. Cr. 8vo. Pp. 416. 1915. Frowde and Hodder. 6s. 6d.

- Gibson, G. A., and Russell.** *Physical Diagnosis. A Guide to Methods of Clinical Investigation.* Revised by F. D. Boyd. 3rd edn. Cr. 8vo. Pp. 468. 1902. Frowde and Hodder. 9s.
- Hutchison, R., and Rainy, H.** *Clinical Methods. A Guide to the Practical Study of Medicine.* 7th edn. Fcap. 8vo. Pp. 700. 1920. Cassell. 12s. 6d.
- Keith, R. D.** *Clinical Case-Taking: An Introduction to Elementary Clinical Medicine.* Cr. 8vo. Pp. 104. 1918. Lewis. 4s. 6d.
- Latham, A., and Torrens, J.** *Medical Diagnosis.* 8vo. Pp. 654. 1915. Churchill. 15s.
- Leftwich, R. W.** *An Index of Symptoms as a Clue to Diagnosis.* 7th edn. Cr. 8vo. Pp. 595. 1920. Murray. 15s.
- *Tabular Diagnosis.* Cr. 8vo. Pp. 359. 1913. Arnold. 7s. 6d.
- McKisack, H. L.** *A Dictionary of Medical Diagnosis. A Treatise on the Symptoms observed in Diseased Conditions, for the use of Students and Practitioners.* 2nd edn. Demy 8vo. Pp. 602. 1912. Baillière. 12s.
- *Systematic Case Taking. A Practical Guide to the Examination and Recording of Medical Cases for the use of Medical Students.* Cr. 8vo. Pp. 180. 1912. Baillière. 3s. 6d.
- March, H.** *Clinical Essays and Lectures.* 8vo. Pp. 315. 1902. Churchill. 7s. 6d.
- Sargent, P., and Russell, A. E.** *Emergencies of General Practice, both Surgical and Medical.* 2nd edn. Demy 8vo. Pp. 465. 1911. Frowde and Hodder. 17s.
- Saundby, R.** *Urgent Symptoms in Medical Practice.* Cr. 8vo. Pp. 437. 1915. Arnold. 8s. 6d.
- Savill, T. D.** *A System of Clinical Medicine.* 5th edn. 2nd imp. Med. 8vo. Pp. 894. (1918) 1920. Arnold. 28s.
- Scott, H. H.** *Post-Graduate Clinical Studies for the General Practitioner.* Demy 8vo. Pp. 175. 1907. Lewis. 8s.
- Short, A. R.** (edited by). *An Index of Prognosis, and Results of Treatment.* By Various Contributors. 2nd edn. Large 8vo. Pp. 770. 1918. John Wright. 30s.
- Smith, F. J.** *Introduction to the Outlines of the Principles of Differential Diagnosis, with Clinical Memoranda.* Ex. Cr. 8vo. Pp. 364. 1899. Macmillan. 7s. 6d.
- Smith, W. J.** *A Medical and Surgical Help for Shipmasters and Officers in the Merchant Navy.* Revised by A. Chaplin. 5th edn. Large Cr. 8vo. Pp. 373. 1919. Griffin. 6s.
- Snowman, J.** *Lenzmann's Manual of Emergencies: Medical, Surgical and Obstetric: Their Pathology Diagnosis and Treatment.* Demy 8vo. Pp. 353. 1919. Bale and Danielsson. 15s.
- Stevens, W. M.** *Medical Diagnosis.* Demy 8vo. Pp. 1,610. 1910. Lewis. 15s.
- Todd, T. W.** *The Clinical Anatomy of the Gastro-Intestinal Tract.* Cr. 8vo. Pp. 276. 1915. Longmans. 7s. 6d.
- Watson, D. C.** *Clinical Lectures in Medicine for Nurses and Junior Medical Practitioners.* Cr. 8vo. Pp. 304. 1918. Livingstone. 4s. 6d.
- Whiting, A. J.** *Aids to Medical Diagnosis.* 2nd edn. Fcap. 8vo. Pp. 176. 1918. Baillière. 3s.
- Zimmern, A., and Perol, P.** *Electro-Diagnosis of War.* Edited by E. P. Cumberbatch. Cr. 8vo. Pp. 230. 1918. University of London Press. 7s. 6d.

iii. INFECTIOUS DISEASES.

a. General Fevers.

- Byam, W., Carroll, J. H., Churchill, J. H., Dimond, L., Sorapure, V. E., Wilson, R. M., and Lloyd, L.** *Trench Fever: A Louse-Borne Disease.* Demy 8vo. Pp. 212. 1919. Frowde and Hodder. 10s. 6d.

Ker, C. B. *A Manual of Fevers.* Cr. 8vo. Pp. 324. 1911. Frowde and Hodder. 8s. 6d.

Rogers, Sir L. *Fevers in the Tropics, their Clinical and Microscopical Differentiation.* 3rd edn. Cr. 4to. Pp. 361. 1919. Frowde and Hodder. 30s.

b. General Infectious Diseases.

Armstrong, H. G., and Fortescue-Brickdale, J. M. *A Manual of Infectious Diseases occurring in Schools.* Cr. 8vo. Pp. 150. 1912. John Wright. 3s.

Goodall, E. W., and Washburn, J. W. *A Manual of Infectious Diseases.* 2nd edn. Demy 8vo. Pp. 438. 1908. Lewis. 15s.

Ker, C. B. *Infectious Diseases. A Practical Handbook.* 2nd edn. Cr. 4to. Pp. 639. 1920. Frowde and Hodder. 42s.

Ledingham, J. C. G., and Arkwright, J. A. *The Carrier Problem in Infectious Disease, with particular reference to Enteric Fever, Diphtheria, Cerebro-Spinal Meningitis, Bacillary Dysentery and Cholera.* Demy 8vo. Pp. 320. 1912. Arnold. 12s. 6d.

Seaton, E. C. *Infectious Diseases and their Preventive Treatment.* Cr. 8vo. Pp. 230. 1911. University of London Press. 7s. 6d.

c. Beri-beri.

Wright, H. *The Etiology and Pathology of Beri-beri.* Roy. 8vo. Pp. 100. 1902. Churchill. 3s.

— *On the Classification and Pathology of Beri-beri.* Roy. 8vo. Pp. 74. 1903. Bale and Danielsson. 3s. 6d.

d. Cerebro-Spinal Fever.

Foster, M., and Gaskell, J. F. *Cerebro-Spinal Fever.* Roy. 8vo. Pp. 232. 1916. Cambridge University Press. 12s. 6d.

Horder, Sir T. J. *Cerebro-Spinal Fever.* Fcap. 8vo. Pp. 179. 1915. Frowde and Hodder. 3s. 6d.

Worster-Drought, C., and Kennedy, A. M. *Cerebro-Spinal Fever. The Etiology, Symptomatology, Diagnosis, and Treatment of Epidemic Cerebro-Spinal Meningitis.* Demy 8vo. Pp. 514. 1919. 35s. Black.

e. Cholera.

Rogers, Sir L. *Cholera and its Treatment.* Demy 8vo. Pp. 250. 1911. Frowde and Hodder. 12s. 6d.

f. Diphtheria.

Harding, M. E. *The Circulatory Failure of Diphtheria.* Demy 8vo. Pp. 192. 1920. University of London Press. 10s. 6d.

Newsholme, Sir A. *Epidemic Diphtheria: A Research on the Origin and Spread of the Disease from an International Standpoint.* 2nd edn. Demy 8vo. Pp. 192. 1900. Allen and Unwin. 8s. 6d.

Nuttall, G. H. F., and Graham-Smith, G. S. *The Bacteriology of Diphtheria. Re-issue with Bibliography, recording the more important work published since 1908.* Roy. 8vo. Pp. 746. 1913. Cambridge University Press. 21s.

g. Dysentery, Malarial Diseases.

Alport, A. C. *Malaria and Its Treatment: in the Line and at the Base.* Demy 8vo. Pp. 300. 1919. Bale and Danielsson. 21s.

Armand-Delille, P., Abrami, P., Paiseau, G., and Lemaire, H. *Malaria in Macedonia: Clinical and Haematological Features, Principles of Treatment.* Edited by Sir R. Ross. Cr. 8vo. Pp. 140. 1918. University of London Press. 7s. 6d.

Brown, W. C. *Amœbic or Tropical Dysentery; its Complications and Treatment.* Fcap. 4to. Pp. 279. 1910. Bale and Danielsson. 7s. 6d.

Cope, Z. *Surgical Aspects of Dysentery, including Liver-Abscess.* 8vo. Pp. 168. 1920. Frowde and Hodder. 12s. 6d.

Newell, A. G. *Blackwater Fever.* Demy 8vo. Pp. 127. 1909. Bale and Danielsson. 5s.

Phillips, L. P. Amœbiasis and the Dysenteries. Demy 8vo. Pp. 158. 1915. Lewis. 9s.

Rat, J. N. Framboesia (Yaws). Pp. 60. 1904. Bale and Danielsson. 2s. 6d.

Rogers, Sir L. Dysenteries, their Differentiation and Treatment. Demy 8vo. Pp. 333. 1913. Frowde and Hodder. 12s. 6d.

Ross, Sir R. The Prevention of Malaria, with Contributions by Leading Experts. Med. 8vo. Pp. 711. 1911. Murray. 24s.

Vincent, H., and Muratet, L. Dysenteries. Cholera, and Exanthematic Typhus. Edited by G. C. Low. Cr. 8vo. Pp. 236. 1917. University of London Press. 7s. 6d.

Willoughby, W. G., and Cassidy, L. Anti-Malarial Work in Macedonia among British Troops. Cr. 8vo. Pp. 78. 1918. Lewis. 3s. 6d.

Wright, H. The Malarial Fevers of British Malaya. Roy. 8vo. Pp. 100. 1902. Churchill. 3s.

h. Plague.

Simpson, W. J. A Treatise on Plague. Roy. 8vo. Pp. 490. 1905. Cambridge University Press. 21s.

Tuck, G. L. (Wu Lien-Teh). North Manchurian Plague Prevention Service Reports (1911-1913). Roy. 8vo. Pp. 193. 1914. Cambridge University Press. 10s. 6d.

i. Small-Pox.

Collie, A. Small-Pox and its Diffusion. Demy 8vo. Pp. 58. 1912. John Wright. 2s.

Hanna, W. Studies in Small-Pox and Vaccination. Cr. 4to. Pp. 52. 1913. John Wright. 7s. 6d.

McVail, J. C. Half-a-Century of Smallpox and Vaccination. Demy 8vo. Pp. 94. 1919. Livingstone. 5s. 6d.

Ricketts, T. F. The Diagnosis of Smallpox. Med. 8vo. Pp. 170. 1908. Cassell. 16s.

Wanklyn, W. How to Diagnose Small-Pox. Demy 8vo. Pp. 104. 1913. Murray. 5s.

j. Tetanus.

Courtois-Suffit, and Giroux, R. Abnormal Forms of Tetanus. Edited by Sir D. Bruce and F. Golla. Cr. 8vo. Pp. 249. 1918. University of London Press. 7s. 6d.

k. Typhoid Fever.

Vincent, H., and Muratet, L. Typhoid Fevers and Paratyphoid Fevers: Symptomatology, Etiology, Prophylaxis. Translated and Edited by J. D. Rolleston. 2nd edn. Cr. 8vo. Pp. 315. 1917. University of London Press. 7s. 6d.

Webb-Johnson, A. E. Surgical Aspects of Typhoid and Paratyphoid Fevers. Demy 8vo. Pp. 190. 1919. Frowde and Hodder. 10s. 6d.

Wright, Sir A. E. A Short Treatise on Anti-Typhoid. Demy 8vo. Pp. 86. 1904. Constable. 3s. 6d.

1. Venereal Diseases: Syphilis: Gonorrhea.

Bayly, H. W. Venereal Disease: Its Prevention, Symptoms, and Treatment. 8vo. Pp. 170. 1919. Churchill. 10s. 6d.

—The Clinical Pathology of Syphilis and Para-Syphilis. Fcap. 8vo. Pp. 208. 1912. Baillière. 5s.

Browning, C. H., and McKenzie, J. Recent Methods in the Diagnosis and Treatment of Syphilis. 3rd impression in preparation. Constable.

—and **Watson, D.** Venereal Diseases. A Practical Handbook for Students. Cr. 8vo. Pp. 352. 1919. Frowde and Hodder. 16s.

Burke, E. T. The Venereal Problem. A Description of the Venereal Diseases, their History, Prevalence, their effect upon the National Life, their Propagation and Spread, and Methods for their Control and Eradication. Cr. 8vo. Pp. 224. 1919. Kimpton. 7s. 6d.

- Carpenter, G.** Syphilis of Children in Every-day Practice. Cr. 8vo. Pp. 112. 1901. Baillière. 3s. 6d.
- Findlay, L.** Syphilis in Childhood. Cr. 8vo. Pp. 166. 1919. Frowde and Hodder. 8s. 6d.
- Fox, W. S.** Syphilis and its Treatment, with especial reference to Syphilis of the Skin. Roy. 8vo. Pp. 203. 1920. Lewis. 36s.
- Harrison, L. W.** The Treatment of Syphilis: a Critical Review. Imp. 8vo. Pp. 74. 1917. Oxford: Clarendon Press. 2s. 6d.
- Diagnosis and Treatment of Venereal Diseases in General Practice. 2nd edn. Demy 8vo. Pp. 490. 1919. Frowde and Hodder. 25s.
- A Manual of Venereal Diseases for Students. Cr. 8vo. Pp. 375. 1920. Frowde and Hodder. 16s.
- Hayes, R.** The Intensive Treatment of Syphilis and Locomotor Ataxia by Aachen Methods. 3rd edn. Cr. 8vo. Pp. 100. 1919. Baillière. 4s. 6d.
- Jones, L. V.** Gonorrhœal Arthritis: its Pathology, Symptoms, and Treatment. Cr. 8vo. Pp. 52. 1901. Lewis. 2s. 6d.
- Lambkin, F. J.** Syphilis, its Diagnosis and Treatment. Demy 8vo. Pp. 204. 1910. Baillière. 5s.
- Lumb, N. P. L.** Gonococcal Infection in the Male: for Students and Practitioners. 8vo. Pp. 339. 1920. Bale and Danielsson. 25s.
- The Systematic Treatment of Gonorrhœa. 2nd edn. Cr. 8vo. Pp. 131. 1920. Lewis. 5s.
- Luys, G.** A Text-book on Gonorrhœa and its Complications. Translated and Edited by A. Foerster. 3rd edn. in preparation. Baillière.
- McDonagh, J. E. R.** Venereal Diseases: Their Clinical Aspect and Treatment. Roy. 8vo. Pp. 419. 1920. Heinemann. 63s.
- McIntosh, J., and Fildes, P.** Syphilis. Demy 8vo. Pp. 227. 1911. Arnold. 10s. 6d.
- Magian, A. C.** A Modern Handbook of Venereal Diseases. Being an Outline of these Affections and of their History and Treatment. 2nd edn. Demy 8vo. Pp. 224. 1919. Heinemann. 10s. 6d.
- Marshall, C. F., and French, E. G.** Syphilis and Venereal Disease. 4th edn. Demy 8vo. Pp. 446. 1921. Baillière. 25s.
- May, O.** Prevention of Venereal Diseases. Cr. 8vo. Pp. 257. 1918. Frowde and Hodder. 7s. 6d.
- Pollock, C. E., and Harrison, L. W.** Gonococcal Infections. Cr. 8vo. Pp. 243. 1912. Frowde and Hodder. 6s.
- Power, Sir D'A., and Murphy, J. K.** (edited by). A System of Syphilis. 5 Vols. 2nd edn. Roy. 8vo. 1914. Vol. 1. Pp. 443. 8s. 6d. Vol. 2. Pp. 396. 8s. 6d. Vol. 3. Pp. 342. 10s. 6d. Vol. 4 (out of print). Vol. 5. Pp. 364. 10s. 6d. Frowde and Hodder.
- Prevention of Venereal Disease, The.** Being the Report of and the Evidence taken by the Special Committee on Venereal Disease. Demy 8vo. Pp. 272. 1921. Williams and Norgate. 21s.
- Reid, Sir G. A.** Prevention of Venereal Disease. Cr. 8vo. Pp. 463. 1920. Heinemann. 15s.
- Russ, C.** A New Treatment of Gonorrhœa. Demy 8vo. Pp. 45. 1914. Lewis. 3s.
- Thibierge, G.** Syphilis and the Army. Edited by C. F. Marshall. Cr. 8vo. Pp. 232. 1918. University of London Press. 7s. 6d.
- Watson, D.** Gonorrhœa and its Complications in the Male and Female. Roy. 8vo. Pp. 395. 1914. Kimpton. 15s.
- Watson, J. K.** The Venereal Diseases Problem: A book more especially for Nurses and Midwives. Cr. 8vo. Pp. 76. 1917. Baillière. 3s. 6d.

m. Yellow Fever.

Boyce, Sir R. W. Yellow Fever and Its Prevention. A Manual for Medical Students and Practitioners. Med. 8vo. Pp. 380. 1911. Murray. 10s. 6d.

iv. DISEASES DUE TO PARASITES.

Alcock, A. Entomology for Medical Officers. 2nd edn. 8vo. Pp. 396. 1920. Gurney and Jackson. 18s.

Boyce, Sir R. W. Mosquito or Man? The Conquest of the Tropical World. 3rd edn. Med. 8vo. Pp. 280. 1910. Murray. 10s. 6d.

Braun, M., and Luhe, M. A Handbook of Practical Parasitology. Translated by L. Forster. Roy. 8vo. Pp. 216. 1910. Bale and Danielsson. 10s. 6d.

Clarke, J. J. Protozoa and Disease. Part 1. Unicellular Organisms and the Cell; the Four Classes of Protozoa: the Parasites of Malaria: the Foundations of Parasitic Protozoology. Pp. 198. 1903. Part 2. Causation of Smallpox and Syphilis. Pp. 150. 1908. Part 3. The Cause of Cancer. Pp. 124. 1912. Part 4. Rhizopod Protozoa, the Cause of Cancer and other Diseases. Pp. 202. 1915. Baillière. 7s. 6d. each.

Da Costa, B. F. B. Sleeping Sickness. A Record of Four Years' War against it in Principe, Portuguese West Africa. Translated by J. A. Wylie. Large Roy. 8vo. Pp. 274. 1916. Baillière. 7s. 6d.

Fantham, H. B., Stephens, J. W. W., and Theobald, F. V. The Animal Parasites of Man. Roy. 8vo. Pp. 964. 1916. Bale and Danielsson. 45s.

Graham, J. Hydatid Disease in its Clinical Aspects. Demy 8vo. Pp. 216. 1891. Frowde and Hodder. 16s.

Laveran, A., and Mesnil, F. Trypanosomes and Trypanosomiasis. Translated and Edited by D. Nabarro. Roy. 8vo. Pp. 538. 1907. Baillière. 21s.

Lloyd, L. Lice and their Menace to Man. Demy 8vo. Pp. 152. 1919. Frowde and Hodder. 7s. 6d.

v. CONSTITUTIONAL DISEASES.

a. Cancer.

Bell, R. Health at Its Best v. Cancer and other Diseases. Cr. 8vo. Pp. 320. 1908. Fisher Unwin. 5s.

Creighton, C. Some Conclusions on Cancer. Roy. 8vo. Pp. 381. 1920. Williams and Norgate. 42s.

Gould, Sir A. P. The Bradshaw Lecture on Cancer. Demy 8vo. Pp. 77. 1910. Bale and Danielsson. 3s. 6d.

Green, C. E. The Cancer Problem: A Statistical Study. 4th edn. Roy. 8vo. Pp. 149. 1917. W. Green. 21s.

Gruner, O. C. The exact Diagnosis of Latent Cancer. Roy. 8vo. Pp. 86. 1919. Lewis. 7s. 6d.

Morris, Sir H. On the Treatment of Inoperable Cancer. Demy 8vo. Pp. 38. 1902. Bale and Danielsson. 3s. 6d.

Moullin, C. W. M. Treatment of Sarcoma and Carcinoma by Injections of Mixed Toxins. Demy 8vo. Pp. 60. 1898. Bale and Danielsson. 3s. 6d.

Robson, Sir A. W. M. Cancer and Its Treatment. Cr. 8vo. Pp. 70. 1905. Baillière. 3s. 6d.

Ross, F. W. F. Cancer: The Problem of Its Genesis and Treatment. Demy 8vo. Pp. 270. 1912. Methuen. 7s. 6d.

Russell, R. Notes on the Causation of Cancer. Cr. 8vo. Pp. 126. 1916. Longmans. 3s. 6d.

Saleeby, C. W. The Conquest of Cancer: A Plan of Campaign. Being an account of the Principles and Practice hitherto of the Treatment of Malignant Growths by Specific or Cancerotoxic Ferment. Demy 8vo. Pp. 420. 1907. Chapman and Hall. 7s. 6d.

Shaw-MacKenzie, J. A. The Nature and Treatment of Cancer. 4th edn. Pp. 118. 1906. Baillière. 2s. 6d.

b. Rheumatism, Gout.

Bannatyne, G. A. Rheumatoid Arthritis. 4th edn. 8vo. Pp. 191. 1906. John Wright. 7s. 6d.

Daniel, P. L. Arthritis: A Study of the Inflammatory Diseases of the Joints. Large Cr. 8vo. Pp. 523. 1911. Bale and Danielsson. 12s. 6d.

Lindsay, J. Gout. Cr. 8vo. Pp. 224. 1913. Frowde and Hodder. 6s.

Llewellyn, L. J. Gout, with a section on Ocular Disease in the Gouty, by W. M. Beaumont. 8vo. 1920. Heinemann. 30s.

—**and Basset, A.** Fibrositis (Gouty, Infective, Traumatic), so-called Chronic Rheumatism. Roy. 8vo. Pp. 694. 1913. Heinemann. 30s.

Poynton, F. J., and Paine, A. Researches on Rheumatism. Roy. 8vo. Pp. 480. 1913. Churchill. 15s.

Stockman, R. Rheumatism and Arthritis. Roy. 8vo. Pp. 138. 1920. W. Green. 15s.

vi. TUBERCULOSIS.

Bandelier, B., and Roepke, Dr. A Clinical System of Tuberculosis. Describing all forms of the Disease. Translated by G. B. Hunt. Roy. 8vo. Pp. 538. 1913. Bale and Danielsson. 21s.

Bardswell, N. D. Advice to Consumptives: Home Treatment, After Care, and Prevention. 2nd edn. Cr. 8vo. Pp. 169. 1920. Black. 3s. 6d.

—The Expectation of Life of the Consumptive after Sanatorium Treatment. Demy 8vo. Pp. 130. 1910. Frowde and Hodder. 4s.

—**and Chapman, J. E.** Diets in Tuberculosis. Cr. 8vo. Pp. 191. 1908. Frowde and Hodder. 6s. 6d.

Bruce, O. Lectures on Tuberculosis to Nurses. Cr. 8vo. Pp. 142. 1913. Lewis. 3s.

Burton-Fanning, F. W. The Open-Air Treatment of Pulmonary Tuberculosis. 2nd edn. Cr. 8vo. Pp. 184. 1916. Cassell. 5s.

Cheyne, Sir W. W. Tuberculous Disease of the Bones and Joints. Their Pathology, Symptoms and Treatment. 2nd edn. Demy 8vo. Pp. 415. 1911. Frowde and Hodder. 18s.

Clarke, H. Studies in Tuberculosis. Cr. 4to. Pp. 78. 1909. Constable. 5s.

Cobbett, L. The Causes of Tuberculosis. Demy 8vo. Pp. 724. 1917. Cambridge University Press. 23s.

Cornet, G. Tuberculosis in Children (Scrofulosis). Translated by J. E. Bullock. Roy. 8vo. Pp. 339. 1914. Bale and Danielsson. 15s.

—**Acute General Military Tuberculosis.** Translated by F. S. Tinker. Demy 8vo. Pp. 121. 1914. Bale and Danielsson. 6s.

Creighton, C. Contributions to the Physiological Theory of Tuberculosis. Roy. 8vo. Pp. 242. 1908. Williams and Norgate. 12s. 6d.

Crofton, W. M. Pulmonary Tuberculosis: its Diagnosis, Prevention and Treatment. Cr. 8vo. Pp. 128. 1917. Churchill. 6s.

Day, J. R. Sea-water Treatment. Demy 8vo. Pp. 97. 1914. Bale and Danielsson. 4s.

Diver, E. W. Consumption: its Prevention and Treatment. 2nd edn. Cr. 8vo. Pp. 149. 1911. Bale and Danielsson. 2s. 6d.

Ely, L. W. Joint Tuberculosis. Large 8vo. Pp. 243. 1911. John Wright. 12s. 6d.

Fraser, J. Tuberculosis of the Bones and Joints in Children. Roy. 8vo. Pp. 352. 1914. Black. 20s.

- Ghon, A.** The Primary Lung Focus of Tuberculosis in Children. Translated by D. B. King. Roy. 8vo. Pp. 200. 1915. Churchill. 10s. 6d.
- Griffiths, F. G.** Studies in Pulmonary Tuberculosis: its Dissemination, Specific Diagnosis and Treatment, and some Points in its Pathology. Cr. 4to. Pp. 122. 1911. Baillière. 5s.
- Héricourt, J.** The Social Diseases: Tuberculosis, Syphilis, Alcoholism, Sterility. Translated, with a final chapter, by B. Miall. Cr. 8vo. Pp. 256. 1920. Routledge. 6s.
- Hort, E. C.** Rational Immunisation in the Treatment of Pulmonary Tuberculosis. Imp. 8vo. Pp. 91. 1909. Bale and Danielsson. 3s. 6d.
- Kelynack, T. N.** (edited by). Tuberculosis in Infancy and Childhood: Its Pathology, Prevention, and Treatment. By Various Authors. Roy. 8vo. Pp. 390. 1908. Baillière. 12s. 6d.
- King, D. B.** Scheme for Dealing with Tuberculous Persons in the County of London: its application to other Cities, with some observations on the National Organisation of the Campaign against Tuberculosis. Cr. 4to. Pp. 54 and 8 diagrams. 1915. Bale and Danielsson. 5s.
- Laird, J.** Notes on the Treatment of Tuberculosis. Cr. 8vo. Pp. 84. 1912. John Wright. 2s. 6d.
- Lees, D. B.** The Diagnosis and Treatment of Incipient Pulmonary Tuberculosis. Demy 8vo. Pp. 116. 1913. Lewis. 5s.
- Maylard, A. E.** Abdominal Tuberculosis. 8vo. Pp. 376. 1908. Churchill. 12s. 6d.
- Minchin, W. C.** The Treatment, Prevention, and Cure of Tuberculosis and Lupus with Oleum Allii. 2nd edn. Cr. 8vo. Pp. 126. 1915. Baillière. 5s.
- Newsholme, Sir A.** The Prevention of Tuberculosis. 2nd edn. Demy 8vo. Pp. 441. 1910. Methuen. 12s. 6d.
- Otobe, S.** The Science and Art of deep Breathing as a Prophylactic and Therapeutic Agent in Consumption. Cr. 8vo. Pp. 124. 1919. Bale and Danielsson. 5s.
- Overend, W.** The Radiography of the Chest. Vol. 1. Pulmonary Tuberculosis. Demy 8vo. Pp. 130. 1920. Heinemann. 17s. 6d.
- Pearson, S. V.** The State Provision of Sanatoriums. Demy 8vo. Pp. 88. 1913. Cambridge University Press. 3s.
- Rivers, W. C.** Three Clinical Studies in Tuberculous Predisposition. Demy 8vo. Pp. 272. 1917. Allen and Unwin. 12s. 6d.
- Riviere, C.** The Early Diagnosis of Tubercle. 3rd edn. Cr. 8vo. Pp. 318. 1921. Frowde and Hodder. 15s.
- The Pneumothorax Treatment of Pulmonary Tuberculosis. Cr. 8vo. Pp. 202. 1917. Frowde and Hodder. 6s.
- Sutherland, H. G.** Pulmonary Tuberculosis in General Practice. Demy 8vo. Pp. 290. 1916. Cassell. 10s. 6d.
- (edited by). The Control and Eradication of Tuberculosis: A Series of International Studies by many Authors. Roy. 8vo. Pp. 467. 1911. W. Green. 15s.
- Thomson, H. H.** Consumption: Its Prevention and Home Treatment. 2nd edn. Cr. 8vo. Pp. 108. 1921. Frowde and Hodder. 4s.
- Consumption in General Practice. Demy 8vo. Pp. 350. 1912. Frowde and Hodder. 14s.
- Tuberculosis and Public Health. Cr. 8vo. Pp. 116. 1920. Longmans. 5s.
- Walsham, H.** The Channels of Infection in Tuberculosis. Roy. 8vo. Pp. 150. 1904. Bale and Danielsson. 12s. 6d.
- Walters, F. R.** The Open-Air or Sanatorium Treatment of Pulmonary Tuberculosis. 8vo. Pp. 339. 1909. Baillière. 6s.

- Walters, F. R.** Sanatoria for the Tuberculous, including a Description of many existing Institutions and of Sanatorium Treatment in Pulmonary Tuberculosis. 4th edn. Demy 8vo. Pp. 445. 1913. Allen and Unwin. 12s. 6d.
- Wolff-Eisner, A.** The Ophthalmic and Cutaneous Diagnosis of Tuberculosis. Translated by B. I. Robert. Roy. 8vo. Pp. 200. 1908. Bale and Danielsson. 7s. 6d.
- viii. DISEASES OF THE NERVOUS SYSTEM.**
- a. General (including Alcoholism).**
- Ash, E.** The Problem of Nervous Breakdown. Demy 8vo. Pp. 311. 1919. Mills and Boon. 10s. 6d.
- Ballance, Sir C. A., and Stewart, Sir J. P.** The Healing of Nerves. 4to. Pp. 124. 1901. Macmillan. 12s. 6d.
- Bristowe, J. S.** Lectures and Essays on Diseases of the Nervous System. 8vo. Pp. 403. 1888. Murray. 12s. 6d.
- Brown, W. L.** The Sympathetic Nervous System in Disease. 8vo. Pp. 178. 1920. Frowde and Hodder. 10s. 6d.
- Dana, C. L.** Text-book of Nervous Diseases. 9th edn. Roy. 8vo. Pp. 665. 1921. J. Wright. 35s.
- Harris, D. F.** Nerves. Fcap. 8vo. Pp. 254. 1913. Williams and Norgate. 2s. 6d.
- Harris, W.** Nerve Injuries and Shock. Fcap. 8vo. Pp. 127. 1915. Frowde and Hodder. 3s. 6d.
- Hollander, B.** Nervous Disorders of Men. 2nd edn. Cr. 8vo. Pp. 260. 1916. Kegan Paul. 4s.
- Nervous Disorders of Women. 2nd edn. Cr. 8vo. Pp. 238. 1916. Kegan Paul. 4s.
- Jones, E.** Treatment of the Neuroses. Demy 8vo. Pp. 241. 1920. Baillière. 10s. 6d.
- Loosmore, C.** Nerves and the Man: A Popular Psychological and Constructive Study of Nervous Breakdown. Cr. 8vo. Pp. 235. 1920. Murray. 6s.
- Mark, L. P.** Acromegaly: A Personal Experience. Demy 8vo. Pp. 168. 1912. Baillière. 7s. 6d.
- Schofield, A. T.** Functional Nerve Diseases. Demy 8vo. Pp. 324. 1908. Methuen. 10s. 6d.
- Souttar, H. S., and Twining, E. W.** Injuries of the Peripheral Nerves. Folio. Pp. 163. 1920. J. Wright. 18s. 6d.
- Stewart, Sir J. P.** The Diagnosis of Nervous Diseases. 5th edn. Demy 8vo. Pp. 584. 1920. Arnold. 30s.
- and Evans, A. Nerve Injuries and their Treatment. 2nd edn. Demy 8vo. Pp. 262. 1919. Frowde and Hodder. 12s. 6d.
- Thomson, H. C.** Diseases of the Nervous System. 2nd edn. Cr. 8vo. Pp. 568. 1915. Cassell. 12s.
- Tinel, J.** Nerve Wounds: Symptomology of Peripheral Nerve Lesions caused by War Wounds. Authorised Translation by F. Rothwell. Revised and Edited by C. A. Joll. Roy. 8vo. Pp. 329. 1918. Baillière. 17s. 6d.
- Cooper, J. W. A.** Pathological Inebriety: its Causation and Treatment. Cr. 8vo. Pp. 168. 1913. Baillière. 3s. 6d.
- Hare, F.** On Alcoholism: its Clinical Aspects and Treatment. Cr. 8vo. Pp. 282. 1912. Churchill. 5s.
- Horsley, Sir V., and Sturge, M. D.** Alcohol and the Human Body. An Introduction to the Study of the Subject, and a Contribution to National Health. 6th edn. Gl. 8vo. Pp. 378. 1920. Macmillan. 3s.
- Kelynack, T. N.** (edited by). The Drink Problem of To-Day in its Medico-Sociological Aspects. 2nd edn. Demy 8vo. Pp. 330. 1916. Methuen. 10s. 6d.
- Rivers, W. H. R.** The Influence of Alcohol and other Drugs on Fatigue. Roy. 8vo. Pp. 144. 1908. Arnold. 7s. 6d.

Wingfield, H. The Forms of Alcoholism and their Treatment. Cr. 8vo. Pp. 84. 1919. Frowde and Hodder. 5s.

b. Diseases of the Brain and Spinal Cord.

Bolton, J. S. The Brain in Health and Disease. Demy 8vo. Pp. 481. 1914. Arnold. 18s.

Williamson, R. T. Diseases of the Spinal Cord. Roy. 8vo. Pp. 443. 1908. Frowde and Hodder. 15s.

Wyllie, J. Meningitis, Sinus Thrombosis and Abscess of the Brain. With Appendices on Lumbar Puncture and its Uses; and Diseases of the Nasal Accessory Sinuses. Post 8vo. Pp. 267. 1911. Lewis. 6s. 6d.

c. Neurasthenia and other special Disorders of the Nervous System.

Appelt, A. The Real Cause of Stammering and its Permanent Cure. A Treatise on Psycho-Analytical Lines. 2nd edn. Cr. 8vo. Pp. 246. 1920. Methuen. 7s.

Auerbach, S. Headache. Its Varieties, their Nature, Recognition and Treatment. Translated by E. Playfair. Cr. 8vo. Pp. 208. 1913. Frowde and Hodder. 6s.

Babinski, J., and Froment, J. Hysteria or Pithiatism, and Reflex Nervous Disorders. Edited by E. F. Buzzard. Cr. 8vo. Pp. 332. 1918. University of London Press. 7s. 6d.

Ballet, G. Neurasthenia. Translated from the French by P. C. Smith. 3rd edn. Demy 8vo. Pp. 438. 1911. Kimpton. 7s. 6d.

Barnett, H. N. Sea Sickness, its True Cause and Cure. Cr. 8vo. Pp. 40. 1907. Baillière. 1s. 6d.

Bruce, W. Sciatica. A Fresh Study, with notes of nearly 700 cases. Cr. 8vo. Pp. 188. 1913. Baillière. 5s.

Cobb, I. G. A Manual of Neurasthenia. Nervous Exhaustion. Demy 8vo. Pp. 382. 1920. Baillière. 15s.

Gowers, Sir W. R. The Borderland of Epilepsy: Faints, Vagal Attacks, Vertigo, Migraine, Sleep Symptoms, and their Treatment. 8vo. Pp. 127. 1907. Churchill. 4s. 6d.

—Epilepsy and other Chronic Convulsive Diseases: their Causes, Symptoms, and Treatment. 2nd edn. 8vo. Pp. 330. 1901. Churchill. 10s. 6d.

Hartenburg, P. Treatment of Neurasthenia. Translated by E. Playfair. Cr. 8vo. Pp. 291. 1914. Frowde and Hodder. 6s.

Hurst, A. F. Croonian Lectures on the Psychology of the Special Senses, and their Functional Disorders. 8vo. Pp. 134. 1920. Frowde and Hodder. 12s. 6d.

Hurry, J. B. The Vicious Circles of Neurasthenia and their Treatment. 8vo. Pp. 106. 1915. Churchill. 3s. 6d.

Hutchinson, J. On Facial Neuralgia and its Treatment—with especial reference to the Surgery of the Fifth nerve and the Gasserian Ganglion. 2nd edn. Demy 8vo. Pp. 230. 1919. Bale and Danielson. 15s.

Rixon, C. H. L., and Matthew, D. Anxiety Hysteria. Modern Views on Sane Neurosis. Cr. 8vo. Pp. 124. 1920. Lewis. 4s. 6d.

Vittoz, R. Treatment of Neurasthenia by Means of Brain Control. Translated from the French by H. B. Brooke. 2nd edn. Cr. 8vo. Pp. 132. 1913. Longmans. 4s.

d. Nervous Disorders Caused by War, including Shell Shock.

Crile, G. W. A Physical Interpretation of Shock, Exhaustion, and Restoration. An Extension of the Kinetic Theory. Edited by A. F. Rowland. 4to. Pp. 248. 1921. Frowde and Hodder. 25s.

- Culpin, M.** Psychoneuroses of War and Peace. Demy 8vo. Pp. 180. 1920. Cambridge University Press. 10s.
- Eder, M. D.** War Shock. The Psychoneuroses in War; Psychology and Treatment. Cr. 8vo. Pp. 154. 1917. Heinemann. 5s.
- Lepine, J.** Mental Disorders of War. Edited by C. A. Mercier. Cr. 8vo. Pp. 244. 1919. University of London Press. 7s. 6d.
- MacCurdy, J. T.** War Neuroses. Preface by W. H. R. Rivers. Demy 8vo. Pp. 144. 1918. Cambridge University Press. 7s. 6d.
- Marr, H. C.** Psychoses of the War. Including Neurasthenia and Shell Shock. Demy 8vo. Pp. 336. 1919. Frowde and Hodder. 16s.
- Miller, H. C.** (edited by). Functional Nerve Disease. An Epitome of War Experience for the Practitioner. Demy 8vo. Pp. 219. 1920. Frowde and Hodder. 8s. 6d.
- Mott, Sir F. W.** War Neuroses and Shell Shock. Demy 8vo. Pp. 368. 1919. Frowde and Hodder. 16s.
- Read, C. S.** Military Psychiatry in Peace and War. Roy. 8vo. Pp. 176. 1920. Lewis. 10s. 6d.
- Smith, G. E., and Pear, T. H.** Shell Shock and its Lessons. 2nd edn. Cr. 8vo. Pp. 152. 1919. Longmans. 3s. 6d.
- Yealland, L. R.** Hysterical Disorders of Warfare. 8vo. Pp. 264. 1918. Macmillan. 7s. 6d.
- e. Mental Disorders; Insanity; Psychiatry.**
- Ballard, E. F.** An Epitome of Mental Disorders. Post 8vo. Pp. 244. 1917. Churchill. 7s. 6d.
- Bianchi, L.** Text-book of Psychiatry for Physicians and Students. Translated by J. H. MacDonald. Roy. 8vo. Pp. 920. 1906. Baillière. 21s.
- Clouston, Sir T. S.** Unsoundness of Mind. Demy 8vo. Pp. 392. 1911. Methuen. 10s. 6d.
- Clouston, Sir T. S.** Clinical Lectures on Mental Diseases. 6th edn. Cr. 8vo. Pp. 750. 1904. Churchill. 16s.
- Cole, R. H.** Mental Diseases: A Text-book of Psychiatry for Medical Students and Practitioners. 2nd edn. Demy 8vo. Pp. 358. 1918. University of London Press. 15s.
- Handbook for Attendants on the Insane.** Published by the Authority of the Medico-Psychological Association. 6th edn. Pp. 406. 1920. Baillière. 3s.
- Hart, B.** The Psychology of Insanity. 3rd imp. Roy. 16mo. Pp. 116. 1919. Cambridge University Press. 3s.
- Kraepelin, E.** Manic-Depressive Insanity and Paranoia. Translated from the German by R. M. Barclay. Edited by G. M. Robertson. 8vo. Pp. 280. 1921. Livingstone. 21s.
- Lectures on Clinical Psychiatry. Authorised Translation, revised and edited by T. Johnstone. 3rd edn. Pp. 386. 1916. Baillière. 12s.
- Maudsley, H.** Responsibility in Mental Disease. 6th edn. Cr. 8vo. Pp. 340. 1906. Kegan Paul. 7s. 6d.
- Mercier, C. A.** Sanity and Insanity. Cr. 8vo. Scott Pub. Co. 5s.
- A Text-book of Insanity and Other Mental Diseases. 2nd edn. Cr. 8vo. Pp. 348. 1914. Allen & Unwin. 7s. 6d.
- Crime and Insanity. Fcap. 8vo. Pp. 255. 1911. Williams & Norgate. 2s. 6d.
- Overbeck-Wright, A. W.** Lunacy in India. 8vo. Pp. 416. 1921. Baillière. 21s.
- Savage, Sir G.** The Increase of Insanity. Demy 8vo. Pp. 80. 1907. Cassell. 2s. 6d.
- Schofield, A. T.** The Management of a Nerve Patient. Cr. 8vo. Pp. 280. 1905. Churchill. 5s.
- Sherlock, E. B.** The Feeble-Minded. A Guide to Study and Practice. 8vo. Pp. 348. 1911. Macmillan. 10s. 6d.

Stoddart, W. H. B. *Mind and Its Disorders.* A Text-book for Students and Practitioners. 3rd edn. Demy 8vo. Pp. 600. 1919. Lewis. 20s.

Tanzi, E. *A Text-book of Mental Diseases.* Translated from the Italian by W. F. Robertson and T. C. Mackenzie. Roy. 8vo. Pp. 820. 1909. Heinemann. 24s.

Tredgold, A. F. *Mental Deficiency (Amentia).* 3rd edn. Demy 8vo. Pp. 551. 1920. Baillière. 25s.

Younger, E. G. *Insanity in Every day Practice.* 4th edn. Cr. 8vo. Pp. 144. 1917. Baillière. 6s.

viii. DISEASES OF THE BLOOD, LYMPHATICS AND GLANDS.

Coles, A. C. *The Blood: How to Examine and Diagnose its Diseases.* 3rd edn. 8vo. Pp. 350. 1905. Churchill. 10s. 6d.

Edmunds, A. *Glandular Enlargements and other Diseases of the Lymphatic System.* Cr. 8vo. Pp. 230. 1908. Frowde & Hodder. 6s.

Gulland, G. L., and Goodall, A. *The Blood: A Guide to its Examination and to the Diagnosis and Treatment of its Diseases.* 2nd edn. Roy. 8vo. Pp. 400. 1914. W. Green. 21s.

Hunter, W. *Pernicious Anæmia: its Pathology, Infective Nature, Symptoms, Diagnosis and Treatment, including Investigations on the Physiology of Hæmolysis.* Large 8vo. Pp. 480. 1901. Griffin. 30s.

McCarrison, R. *The Thyroid Gland in Health and Disease.* Roy. 8vo. Pp. 304. 1918. Baillière. 16s.

— *The Etiology of Endemic Goitre.* Demy 8vo. Pp. 222. 1913. Bale & Danielsson. 10s. 6d.

Murray, G. R. *Diseases of the Thyroid Gland. Part 1. Myxœdema and Cretinism.* Demy 8vo. Pp. 120. 1900. Lewis. 7s. 6d.

ix. DISEASES OF THE HEART AND CIRCULATORY SYSTEM.

Allbutt, Sir T. C. *Diseases of the Arteries, including Angina Pectoris.* 2 Vols. 8vo. Pp. 550., 566. 1915. Macmillan. 30s.

Bishop, L. F. *Arteriosclerosis. A Consideration of the Prolongation of Life and Efficiency after Forty.* 2nd edn. Demy 8vo. Pp. 389. 1915. Frowde & Hodder. 12s. 6d.

Blackhall-Morison, A. *The Sensory and Motor Disorders of the Heart: Their Nature and Treatment.* Demy 8vo. Pp. 268. 1914. Baillière. 7s. 6d.

Broadbent, Sir W. H., and Sir J. F. H. *Heart Disease and Aneurysm of the Aorta, with special Reference to Prognosis and Treatment.* 4th edn. Pp. 496. 1906. Baillière. 12s. 6d.

Brockbank, E. M. *The Diagnosis and Treatment of Heart Disease. Practical Points for Students and Practitioners.* 4th edn. Cr. 8vo. Pp. 166. 1919. Lewis. 5s.

Brunton, Sir T. L. *Collected Papers on Circulation and Respiration. First Series.* 8vo. Pp. 710. 1906. Macmillan. 7s. 6d.

— *Therapeutics of the Circulation.* Fcap. 8vo. Pp. 536. 1916. Murray. 6s.

Caton, R. *The Prevention of Valvular Disease of the Heart.* Demy 8vo. Pp. 102. 1904. Cambridge University Press. 5s.

Cowan, J. *Diseases of the Heart, with Chapters by W. T. Ritchie and A. J. Ballantyne.* Demy 8vo. Pp. 447. 1914. Arnold. 15s.

Dampier-Bennett, A. G. *Physical Methods in the Treatment of Heart Disease.* Cr. 8vo. Pp. 111. 1907. John Wright. 3s. 6d.

Goulston, A. *Cane Sugar and Heart Disease.* Demy 8vo. Pp. 116. 1914. Baillière. 5s.

Haward, W. *Phlebitis and Thrombosis; Hunterian Lectures.* Cr. 8vo. Pp. 96. 1906. Baillière. 7s. 6d.

- Hay, J.** *Graphic Methods in Heart Disease.* 2nd edn. Demy 8vo. Pp. 202. 1921. Frowde & Hodder. 12s. 6d.
- Lea, E.** *Heart: Past and Present.* Cr. 8vo. Pp. 308. 1919. Baillière. 7s. 6d.
- Mackenzie, Sir J.** *Diseases of the Heart.* 3rd edn. Cr. 4to. Pp. 525. 1918. Frowde & Hodder. 31s. 6d.
- *Principles of Diagnosis and Treatment in Heart Affection.* Demy 8vo. Pp. 272. 1916. Frowde & Hodder. 8s. 6d.
- Poynton, F. J.** *Heart Disease. Including Thoracic Aneurysm.* Cr. 8vo. Pp. 320. 1907. Frowde & Hodder. 6s.
- Price, F. W.** *Diseases of the Heart. Their Diagnosis, Prognosis, and Treatment by Modern Methods, with a Chapter on the Electro-Cardiograph.* Demy 8vo. Pp. 468. 1918. Frowde & Hodder. 21s.
- Ritchie, W. T.** *Auricular Flutter.* 8vo. Pp. 156. 1914. W. Green. 10s. 6d.
- Russell, W.** *The Sphygmometer: its Value in Practical Medicine.* Demy 8vo. Pp. 157. 1921. Baillière. 7s. 6d.
- Sutherland, G. A.** *The Heart in Early Life.* Cr. 8vo. Pp. 227. 1914. Frowde & Hodder. 6s. 6d.
- Thorne, L. T.** *The 'Nauheim' Treatment, in England, of Diseases of the Heart and Circulation.* 5th edn. Cr. 8vo. Pp. 168. 1918. Baillière. 5s.
- Thorne, W. B.** *The Schott Methods of the Treatment of Chronic Diseases of the Heart: with an Account of the Nauheim Baths, and of the Therapeutic Exercises.* 5th edn. 8vo. Pp. 140. 1906. Churchill. 5s.
- Trotter, L. B. C.** *Embolism and Thrombosis of the Mesenteric Vessels.* Demy 8vo. Pp. 156. 1913. Cambridge University Press. 8s.
- Verdon, W.** *Angina Pectoris.* Demy 8vo. Pp. 430. 1920. Baillière. 18s. 6d.
- Wilson, R. McN.** *The Hearts of Man.* Cr. 8vo. Pp. 202. 1918. Frowde & Hodder. 6s.
- and **Carroll, J. A.** *The Nervous Heart: its Nature, Causation, Prognosis, and Treatment.* Cr. 8vo. Pp. 144. 1919. Frowde & Hodder. 6s.
- Wilson, T. S.** *The Early Diagnosis of Heart Failure, and other Essays on the Heart and Circulation.* 8vo. Pp. 617. 1915. Murray. 15s.

x. DISEASES OF THE RESPIRATORY SYSTEM.

- Adam, J.** *Asthma and its Radical Treatment.* Cr. 8vo. Pp. 192. 1913. Kimpton. 6s.
- Allen, R. W.** *The Bacterial Diseases of Respiration, and Vaccines in their Treatment.* Roy. 8vo. Pp. 246. 1913. Lewis. 9s.
- Anderson, H. G.** *The Medical and Surgical Aspects of Aviation, with Chapters on Applied Physiology of Aviation, by M. Flack, and the Aero-Neuroses of War Pilots, by O. H. Gotch.* Demy 8vo. Pp. 271. 1919. Frowde & Hodder. 12s. 6d.
- Berkart, J. B.** *"Nervous Asthma."* *The Pathology and Treatment.* 8vo. Pp. 54. 1916. Oxford University Press. 3s. 6d.
- Brockbank, E. M., and Ramsbottom, A.** *The Clinical Examination of Diseases of the Lungs.* Cr. 8vo. Pp. 96. 1921. Lewis. 4s. 6d.
- Cruchet, R., and Moulinier, T.** *Air Sickness: its Nature and Treatment.* Translated by J. R. Earp. Fcap. 8vo. Pp. 110. 1920. Bale & Danielsson. 5s.
- Hamilton, D. J.** *On the Pathology of Bronchitis, Catarrhal Pneumonia, Tubercle, and Allied Lesions of the Human Lung.* 8vo. Pp. 260. 1883. Macmillan. 8s. 6d.

- Hood, D. W. C.** Some of the Clinical Aspects of Pneumonia. Demy 8vo. Pp. 125. 1907. Bale & Danielsson. 5s.
- Knuthsen, L. F. B.** Obstinate Hiccough: the Physiology, Pathology, and Treatment. Roy. 8vo. Pp. 180. 1902. Churchill. 6s.
- Lindsay, J. A.** Lectures on Diseases of the Lungs. 2nd edn. 8vo. Pp. 520. 1906. Baillière. 10s. 6d.
- Mann, Dr.** Atlas of Killian's Tracheo-Bronchoscopy. 15 coloured Plates representing Pathological Preparations from cases examined during life by means of Tracheo-Bronchoscopy. Translated by T. Guthrie. Demy Folio. 1911. Bale & Danielsson. 22s.
- West, S.** Diseases of the Organs of Respiration. An Epitome of the Etiology, Pathology, Symptoms, Diagnosis and Treatment of Diseases of the Lungs and Air Passages. 2nd edn. 2 Vols. Large 8vo. Pp. 934. 1909. Griffin. 42s.
- White, R. P.** Catarrhal Fevers, commonly called Colds: their Causes, Consequences, Control and Cure. Demy 8vo. Pp. 119. 1902. Lewis. 4s.
- xi. DISEASES OF THE DIGESTIVE SYSTEM AND OF THE STOMACH.**
- Abrahams, A.** Indigestion. The 4th edn. of Herschell's Text-book. Demy 8vo. Pp. 228. 1920. Arnold. 10s. 6d.
- Bolton, C.** Ulcer of the Stomach. Demy 8vo. Pp. 412. 1913. Arnold. 15s.
- Bosanquet, W. C.** The Stomach, Pancreas, and Intestines. Large Cr. 8vo. Pp. 674. 1910. Bale & Danielsson. 12s. 6d.
- Brunton, Sir T. L.** Disorders of Digestion: Their Consequences and Treatment. 8vo. Pp. 406. 1910. Macmillan. 10s. 6d.
- On Disorders of Assimilation, Digestion, etc. 8vo. Pp. 516. 1904. Macmillan. 10s. 6d.
- Cobb, I. G.** The Organs of Internal Secretion, their Diseases and Therapeutic Application. A Book for General Practitioners. 2nd edn. Cr. 8vo. Pp. 288. 1918. Baillière. 8s. 6d.
- Dutton, T.** Indigestion clearly Explained, Treated, and Dieted. 7th edn. Cr. 8vo. Pp. 220. 1911. Kimpton. 3s. 6d.
- Fenwick, W. S.** Ulcer of the Stomach and Duodenum, and its Consequences. Roy. 8vo. Pp. 400. 1900. Churchill. 10s. 6d.
- Hunter, G.** Oral Sepsis as a Cause of Septic Gastritis, Toxic Neuritis, and other Septic Conditions; with Illustrative Cases. Demy 8vo. Pp. 30. 1901. Cassell. 3s. 6d.
- Langenhagen, M. de.** Mucio-Membranous Entero-Colitis: Symptoms, Complications, Etiology and Treatment. Fcap. 8vo. Pp. 121. 1903. Churchill. 3s. 6d.
- Peters, O. H.** Observations upon the Natural Histology of Epidemic Diarrhoea. Roy. 8vo. Pp. 178. 1911. Cambridge University Press. 7s.
- Pickerill, H. D.** Stomatology in General Practice; a Text-book of Diseases of the Teeth and Mouth for Practitioners. Demy 8vo. Pp. 280. 1912. Frowde & Hodder. 17s.
- Saundby, R.** The Treatment of Diseases of the Digestive System. 2nd edn. Cr. 8vo. Pp. 191. 1914. Griffin. 4s. 6d.
- Smith, J. S. K.** The Cure of Obesity and Obese Heart. Cr. 8vo. Pp. 102. 1916. Churchill. 3s. 6d.
- xii. DISEASES OF THE LIVER AND GALL BLADDER.**
- Robson, Sir A. W. M.** Diseases of the Gall-Bladder and Bile-Ducts. 3rd edn. Demy 8vo. Pp. 501. 1904. Baillière. 15s.
- Rolleston, Sir H. D.** Diseases of the Liver, Gall Bladder, and Bile-Ducts. 2nd edn. 8vo. Pp. 828. 1912. Macmillan. 31s. 6d.

**xiii. DISEASES OF THE
INTESTINES.**

Bigg, G. S. Indigestion, Constipation, and Liver Disorder. Cr. 8vo. Pp. 176. 1913. Baillière. 3s. 6d.

Bryce, A. Intestinal Toxæmia, or Auto-Intoxication in the causation of Disease. Cr. 8vo. Pp. 192. 1921. Melrose. 6s.

Harley, V., and Goodbody, F. The Chemical Investigation of Gastric and Intestinal Diseases by the Aid of Test Meals. Demy 8vo. Pp. 269. 1906. Arnold. 8s. 6d.

Hurst, A. F. The Sensibility of the Alimentary Canal. Demy 8vo. Pp. 83. 1911. Frowde & Hodder. 6s.

— Constipation and Allied Intestinal Disorders. 2nd edn. Demy 8vo. Pp. 460. 1919. Frowde & Hodder. 16s.

White, W. H., Andrewes, Sir F. W., Harley, V., Saundby, R., Lane, Sir W. A., and Colyer, J. F. Alimentary Toxæmia: its Sources, Consequences, and Treatment. Roy. 8vo. Pp. 384. 1913. Longmans. 4s. 6d.

**xiv. DISEASES OF THE
RECTUM AND PERITONEUM.**

Ball, Sir C. B. The Rectum: Its Diseases and Developmental Defects. Cr. 4to. Pp. 332. 1910. Frowde & Hodder. 20s.

Cripps, H. On Diseases of the Rectum and Anus. 4th edn. 8vo. Pp. 602. 1913. Churchill. 10s. 6d.

Edwards, F. S. Diseases of the Rectum, Anus and Sigmoid Colon. Being the 3rd edn. of Cooper and Edwards' Diseases of the Rectum and Anus. 8vo. Pp. 456. 1908. Churchill. 10s. 6d.

Hawkins, H. P. Diseases of the Vermiform Appendix: with a Consideration of the Symptoms and Treatment of the Resulting Forms of Peritonitis. 8vo. Pp. 148. 1895. Macmillan. 7s.

Mummery, J. P. L. The Sigmoidoscope. A Clinical Handbook on the Examination of the Rectum and Pelvic Colon. Cr. 8vo. Pp. 90. 1906. Baillière. 3s. 6d.

— Diseases of the Rectum and Anus. Demy 8vo. Pp. 358. 1914. Baillière. 10s.

**xv. DISEASES OF THE GENITO-
URINARY SYSTEM.**

Cambridge, P. J. Glycosuria and Allied Conditions. Demy 8vo. Pp. 475. 1913. Arnold. 18s.

Cooper, A. The Sexual Disabilities of Man and their Treatment and Prevention. 4th edn. Cr. 8vo. Pp. 274. 1920. Lewis. 7s. 6d.

Corbett-Smith, A. The Problem of Sex Diseases. A Study in the Causes, Symptoms, and Effects of Sexual Disease, and the Education of the Individual therein. 2nd edn. Roy. 8vo. Pp. 123. 1920. Bale & Danielsson. 2s. 6d.

Corner, E. M. Male Diseases in General Practice. An Introduction to Andrology. Demy 8vo. Pp. 478. 1910. Frowde & Hodder. 17s.

Dalton, G. A Practical Manual of Venereal and Generative Diseases: Spermatorrhœa, Sterility and Impotence in both sexes. Cr. 8vo. Pp. 164. 1913. Kimpton. 5s.

Eccles, W. McA. The Imperfectly Descended Testis: its Anatomy, Physiology, and Pathology. Cr. 8vo. Pp. 152. 1903. Baillière. 7s. 6d.

Fenwick, E. H. Obscure Diseases of the Urethra. 8vo. Pp. 160. 1902. Churchill. 6s. 6d.

Kidd, F. Common Diseases of the Male Urethra. 2nd edn. 8vo. Pp. 144. 1919. Longmans. 6s.

**xvi. DISEASES OF THE
KIDNEYS.**

Billington, W. Movable Kidney: its Etiology, Pathology, Diagnosis, Symptoms, and Treatment. Demy 8vo. Pp. 168. 1910. Cassell. 7s. 6d.

Blum, V. Renal Diagnosis in Medicine and Surgery. Translated by W. B. Christopherson. Demy 8vo. Pp. 152. 1914. Bale & Danielsson. 7s. 6d.

Herringham, Sir W. P., and Williamson, H. Kidney Diseases. Demy 8vo. Pp. 394. 1912. Frowde & Hodder. 17s.

Kidd, F. Common Infections of the Kidneys. Demy 8vo. Pp. 331. 1920. Frowde & Hodder. 18s.

Macleod, J. J. R. Diabetes: Its Pathological Physiology. Demy 8vo. Pp. 224. 1913. Arnold. 10s. 6d.

Pavy, F. W. On Carbohydrate Metabolism, with an Appendix on the Assimilation of Carbohydrate into Protein and Fat, followed by the Fundamental Principles and the Treatment of Diabetes Dialectically Discussed. Demy 8vo. Pp. 150. 1906. Churchill. 6s.

Wilson, H. W., and Howell, C. M. H. Movable Kidney: Its Pathology, Symptoms and Treatment. Demy 8vo. Pp. 112. 1908. Arnold. 4s. 6d.

xvii. DISEASES OF THE BLADDER.

Fenwick, E. H. Operative and In-operative Tumours of the Urinary Bladder: A Clinical and Operative Study based on 500 Cases. 8vo. Pp. 120. 1901. Churchill. 5s.

— Ulceration of the Bladder: Simple, Tuberculous and Malignant: a Clinical Study. 8vo. Pp. 85. 1900. Churchill. 5s.

xviii. DISEASES OF THE ABDOMEN.

Adams, J. E., and Cassidy, M. A. Acute Abdominal Diseases, including Abdominal Injuries and the Complications of External Hernia. Demy 8vo. Pp. 582. 1913. Baillière. 12s. 6d.

Battle, W. H. The Acute Abdomen. 2nd edn. Demy 8vo. Pp. 306. 1914. Constable. 10s. 6d.

Bishop, E. S. Essentials of Pelvic Diagnosis: with Illustrative Cases. And an Appendix on the Examination of the Blood by C. H. Melland. Demy 8vo. Pp. 297. 1903. John Wright. 9s. 6d.

Chubbe, C. P. B. The Diagnosis and Treatment of Intussusception. 2nd edn. Demy 8vo. Pp. 101. 1921. Frowde & Hodder. 7s. 6d.

Corner, E. M. Clinical and Pathological Observations on Acute Abdominal Diseases, Due to Conditions of the Alimentary Tract and the Uniformity of their Origin. Demy 8vo. Pp. 98. 1904. Constable. 3s. 6d.

Lennander, K. G. Observations on the Sensibility of the Abdominal Cavity. Translated by A. E. Barker. Demy 8vo. Pp. 76. 1903. Bale and Danielsson. 3s.

Sawyer, J. E. H. Physical Signs of Diseases of the Thorax and Abdomen. Cr. 8vo. Pp. 200. 1908. Baillière. 5s.

xix. TROPICAL MEDICINE.

Balfour, A. War Against Tropical Disease. Cr. 4to. Pp. 219. 1920. (Wellcome Bureau of Scientific Research). Baillière. 12s. 6d.

Brooke, G. E. Aids to Tropical Medicine. 2nd edn. Fcap. 8vo. Pp. 238. 1917. Baillière. 3s. 6d.

— Medico Tropical Practice. 2nd edn. Cr. 8vo. Pp. 522. 1920. Griffin. 18s.

Brown, W. C. Sprue and its Treatment. Fcap. 4to. Pp. 270. 1908. Bale & Danielsson. 6s.

Castellani, A., and Chalmers, A. J. Manual of Tropical Medicine. 3rd edn. Demy 8vo. Pp. 2,448. 1919. Baillière. 45s.

Crispin, E. S. The Prevention and Treatment of Diseases in the Tropics. Pocket size. Pp. 96. 1912. Griffin. 1s. 6d.

- Daniels, C. W.** Tropical Medicine and Hygiene. 3 Parts. 2nd edn. Demy 8vo. Part 1. Diseases due to Protozoa. 1913. Part 2. Diseases due to Metazoa, and an Article on Venomous Snakes, by A. Alcock. 1914. Part 3. Diseases due to Bacteria and other Vegetable Parasites, etc. 1917. Bale & Danielsson. 8s. 6d. each.
- and Newham, H. B. G. Laboratory Studies in Tropical Medicine. 4th edn. Demy 8vo. 1918. Bale & Danielsson. 21s.
- Fothergill, C. F.** Blood Examination and its Value in Tropical Disease. Cr. 8vo. Pp. 42. 1907. Kimpton. 2s. 6d.
- Giles, G. M.** A Handbook of the Gnats or Mosquitoes, including a Revision of the Anophelinæ. For the use of Students of Tropical Medicine, giving the Anatomy and Life-History of the Culicidæ. 2nd edn. Roy. 8vo. Pp. 542. 1902. Bale & Danielsson. 23s. 6d.
- A Revision of the Anophelinæ. A First Supplement to the above. Roy. 8vo. Pp. 47. 1904. Bale & Danielsson. 2s. 6d.
- Graham-Smith, G. S.** Flies in Relation to Disease: Non-blood-sucking Flies. 2nd edn. Demy 8vo. Pp. 405. 1914. Cambridge University Press. 15s.
- Hindle, E.** Flies in Relation to Disease: Bloodsucking Flies. Demy 8vo. Pp. 414. 1914. Cambridge University Press. 15s.
- Lambart, H. C.** A Practical Handbook of the Tropical Diseases of Asia and Africa. Large Cr. 8vo. Pp. 339. 1914. Griffin. 10s. 6d.
- Manson, Sir P.** Tropical Diseases: A Manual of the Diseases of warm Climates. Edited by P. H. Manson-Bahr. 7th edn. Demy 8vo. Pp. 976. 1921. Cassell. 31s. 6d.
- Lectures on Tropical Diseases. Demy 8vo. Pp. 238. 1905. Constable. 7s. 6d.
- Masters, W. E.** Essentials of Tropical Medicine. Large 8vo. Pp. 609. 1920. Bale & Danielsson. 42s.
- Wenyon, C. M., and O'Connor, F. W.** Human Intestinal Protozoa in the Near East. Cr. 4to. Pp. 220. 1918. Bale & Danielsson. 10s. 6d.
- xx. OCCUPATIONAL DISEASES.**
- Collis, E. L., and Greenwood, M.** The Health of the Industrial Worker. With a Chapter on Reclamation of the Disabled, by A. J. Collis. Roy. 8vo. Pp. 470. 1921. Churchill. 30s.
- Hill, L.** Caisson Sickness. Demy 8vo. Pp. 266. 1912. Arnold. 10s. 6d.
- Mosso, A.** Fatigue. Translated by M. and W. B. Drummond. 3rd edn. Cr. 8vo. Pp. 334. 1915. Allen & Unwin. 3s. 6d.
- Oliver, Sir T.** Diseases of Occupation: from the Legislative, Social, and Medical Points of View. 3rd edn. Demy 8vo. Pp. 496. 1916. Methuen. 15s.
- Occupations from the Social, Hygienic and Medical Points of View. Demy 8vo. Pp. 120. 1916. Cambridge University Press. 8s. 6d.
- Parry, L. A.** The Risks and Dangers to Health of Various Occupations and their Prevention. Demy 8vo. Pp. 196. 1900. Scott, Greenwood. 8s. 6d.
- Saundby, R.** Old Age: Its Care and Treatment. Demy 8vo. Pp. 312. 1913. Arnold. 8s. 6d.
- Weber, Sir H.** On Longevity and Means for the Prolongation of Life. 5th edn. 8vo. Pp. 314. 1919. Macmillan. 12s.

SURGERY.

1. GENERAL TREATISES.

Back, I., and Edwards, A. T. Synopsis of Surgery. Cr. 8vo. Pp. 480. 1920. Churchill. 15s.

Barnett, H. N. (edited by). The Student's Text-book of Surgery. By various contributors. Roy. 8vo. Pp. 796. 1916. Heinemann. 21s.

Bland-Sutton, Sir J. Selected Lectures and Essays, including Ligaments and Morphology. 4th edn. Demy 8vo. Pp. 330. 1920. Heinemann. 15s.

Caird, F. M., and Cathcart, C. W. A Surgical Handbook, for Practitioners, Students, House-Surgeons, and Dressers. 19th edn. Pocket size. Pp. 379. 1921. Griffin. 8s. 6d.

Catechism Series. Surgery. 3rd edn. 5 parts. Written by C. R. Whittaker. 1s. 9d. each, also in one volume, cloth 9s. Livingstone.

Cheyne, Sir W. W., and Burghard, F. F. A Manual of Surgical Treatment. Revised and Re-written with the assistance of T. P. Legg and A. Edmunds. 5 Vols. Roy. 8vo. Vol. 1. Pp. 576. 1914. 27s. 6d. Vol. 2. Pp. 598. 1912. 27s. 6d. Vol. 3. Pp. 604. 1916. 27s. 6d. Vol. 4. Pp. 650. 1913. 30s. Vol. 5. Pp. 648. 1917. 30s. Longmans.

Choyce, C. C., and Beattie, J. M. (edited by). A System of Surgery. By various Contributors. 3 Vols. Med. 8vo. Vol. 1. Surgical Pathology, Tumours, General Surgery, etc. Pp. 958. 1912. Vol. 2. Surgical Diseases of the Breast, Tongue and Mouth, Gastro-Intestinal and Genito-Urinary Tracts, etc. Pp. 1106. 1912. Vol. 3. Surgical Diseases of the Caroid-

Vascular, Lymphatic, Respiratory and Nervous Systems, Nose, Throat and Ear, Muscles, Tendons, Joints, Bones, etc. Pp. 902. 1914. Cassell. 30s. per vol.

Cooke, A. Groundwork of Surgery. Cr. 8vo. Pp. 191. 1919. Heffer. 7s. 6d.

Cunning, J. Aids to Surgery. 4th edn. Fcap. 8vo. Pp. 428. 1920. Baillière. 4s. 6d.

Elder, A. V. The Ship-Surgeon's Handbook. 2nd edn. Cr. 8vo. Pp. 400. 1911. Baillière. 6s.

Gask, G. E., and Wilson, H. W. (edited by). Surgery. A Text-book by Various Authors. Roy. 8vo. Pp. 1250. 1920. Churchill. 42s.

Groves, E. W. H. Synopsis of Surgery: For Students and Practitioners. 5th edn. Cr. 8vo. Pp. 628. 1920. John Wright. 17s. 6d.

Howard, R. The Practice of Surgery. 2nd edn. 2nd imp. Roy. 8vo. Pp. 1251. 1920. Arnold. 35s.

Lister, Lord. The Collected Papers. 2 vols. Demy 4to. Pp. 1,015. 1909. Vol. 1. Introductory Essay; Physiology; Pathology and Bacteriology. Vol. 2. Antiseptic Surgery; Surgery; Addresses. Oxford: Clarendon Press. 42s.

Morison, R. An Introduction to Surgery. Large 8vo. Pp. 162. 1920. John Wright. 8s. 6d.

— Surgical Contributions from 1881—1916. 2 Vols. Large 8vo. 1916. Vol. 1. General Surgery. Pp. 427. 15s. Vol. 2. Abdominal Surgery. Pp. 953. 30s. John Wright. The 2 vols, 42s.

- Power, Sir D'A.** *The Practitioner's Surgery.* 3 Vols. Roy. 8vo. Pp. 672., 527., 587. 1919. Frowde & Hodder. £4 14s. 6d.
- Rose, W., and Carless, A.** *A Manual of Surgery for Students and Practitioners.* 10th edn. Demy 8vo. Pp. 1558. 1920. Baillière. 30s.
- Thomson, A., and Miles, A.** *A Manual of Surgery.* 3 vols. Cr. 8vo. Vol. 1. General Surgery. 5th edn. Pp. 828. 1919. 12s. 6d. Vol. 2. Regional Surgery. 5th edn. Pp. 939. 1915. 12s. 6d. Vol. 3. Operative Surgery. 3rd edn. Pp. 637. 1920. 16s. Frowde & Hodder.
- Warren, R.** *A Text-book of Surgery.* 2 vols. Roy. 8vo. Pp. 1500. 1915. Churchill. 27s.
- ii. OPERATIVE SURGERY.**
- Allingham, H. W.** *Operative Surgery.* Cr. 8vo. Pp. 382. 1903. Baillière. 7s. 6d.
- Burghard, F. F.** (edited by). *A System of Operative Surgery.* By British Surgeons. 5 vols. 2nd edn. Roy. 8vo. 1914. Vol. 1. Pp. 736. 21s. Vol. 2. Pp. 717. 21s. Vol. 3. Pp. 755. 21s. Vol. 4. Pp. 521. 24s. Vol. 5. Pp. 275. 18s. Frowde & Hodder. The set, 84s.
- Catechism Series.** *Operative Surgery.* 2nd edn. 3 Parts. Written by C. R. Whittaker. Part 1. Arteries, Nerves, Excisions, Thorax, Head and Neck. Part 2. Amputations. Part 3. Abdomen. 1s. 9d. each, also in one volume, cloth, 5s. 6d. Livingstone.
- Corner, E. M., and Pinches, H. J.** *Operations of General Practice.* 3rd edn. Demy 8vo. Pp. 354. 1910. Frowde & Hodder. 17s.
- Fitzwilliams, D. C. L.** *A Manual of Operative Surgery, with Surgical Anatomy and Surface Markings.* Demy 8vo. Pp. 458. 1913. Baillière. 10s. 6d.
- Guthrie, C. C.** *Blood-Vessel Surgery and its Application.* Demy 8vo. Pp. 376. 1912. Arnold. 15s.
- Jacobson, W. H. A.** *The Operations of Surgery.* 6th edn. Revised by R. P. Rowlands and P. Turner. 2 vols. Roy. 8vo. Pp. 1,040., 940. 1915. Churchill. 50s.
- Lockwood, C. B.** *Clinical Surgery.* 2nd edn. Cr. 8vo. Pp. 397. 1911. Frowde & Hodder. 6s.
- MacLennan, A.** *Surgical Materials and their Uses.* Cr. 8vo. Pp. 260. 1915. Arnold. 4s. 6d.
- Orrin, H. C.** *Aids to Operative Surgery.* Fcap. 8vo. Pp. 244. 1921. Baillière. 6s.
- Pearson, C. Y.** *Modern Surgical Technique in its Relation to Operations and Wound-Treatment.* 2nd edn. Demy 8vo. Pp. 504. 1911. Bale & Danielsson. 10s. 6d.
- Schmieden, V., and Turnbull, A.** *The Course of Operative Surgery. A Handbook for Practitioners and Students.* 2nd edn. Roy. 8vo. Pp. 369. 1920. Baillière. 25s.
- Short, A. R.** *When to Advise Operation in General Practice.* Cr. 8vo. Pp. 279. 1916. John Wright. 7s. 6d.
- Smith, E. A.** *Suture of Arteries. An Experimental Research.* Demy 8vo. Pp. 70. 1909. Frowde & Hodder. 2s. 6d.
- Spencer, W. G.** *Animal Experiments and Surgery.* Cr. 8vo. Pp. 187. 1920. University of London Press. 6s.
- Taylor, E. H.** *Operative Surgery: The Head and Neck, the Thorax, the Abdomen.* Cr. 4to. Pp. 536. 1914. Churchill. 32s.
- Treves, Sir F., and Hutchinson, J.** *The Student's Handbook of Surgical Operations.* 3rd edn. Cr. 8vo. Pp. 512. 1911. Cassell. 9s.
- Tubby, A. H., and Jones, R.** *Modern Methods in the Surgery of Paralyses.* Ex. Cr. 8vo. Pp. 326. 1903. Macmillan. 10s.

Waring, H. J. Manual of Operative Surgery. 4th edn. Cr. 8vo. Pp. 778. 1912. Frowde & Hodder. 14s.

Wheeler, Sir W. I. de C. Handbook of Operative Surgery. 3rd edn. Demy 8vo. Pp. 372. 1918. Baillière. 12s.

iii. DIAGNOSIS (INCLUDING X-RAY DIAGNOSIS).

Carson, H. W. Aids to Surgical Diagnosis. Fcap. 8vo. Pp. 148. 1906. Baillière. 3s. 6d.

Davidson, Sir J. M. Localization by X-Rays and Stereoscopy. Roy. 8vo. Pp. 83. 1916. Lewis. 9s.

Gage, H. C. X-Ray Observations for Foreign Bodies and their Localisation. Demy 8vo. Pp. 96. 1920. Heinemann. 6s.

Gould, Sir A. P. and E. P. Elements of Surgical Diagnosis. 5th edn. Fcap. 8vo. Pp. 722. 1919. Cassell. 12s. 6d.

Rea, R. L. Chest Radiography at a Casualty Clearing Station. Cr. 4to. Pp. 24 and Atlas. 1919. Lewis. 15s.

iv. SURGICAL THERAPEUTICS AND PATHOLOGY.

Bowlby, Sir A. A., and Andrewes, Sir F. W. Surgical Pathology and Morbid Anatomy. 7th edn. Med. 8vo. Pp. 660. 1920. Churchill. 30s.

Doyen, E., and Spencer-Browne, H. Surgical Therapeutics and Operative Technique. 3 vols. Large Roy. 8vo. Vol. 1. General Technique, Treatment of Cancer, Operations on the Bloodvessels, Nerves, Surgery of the Head. Pp. 756. 1917. Vol. 2. Surgery of the Head (contd.), of the Thorax, Upper and Lower Extremities. Pp. 688. 1920. Vol. 3. Operations on the Abdomen, Pelvis, and Genito-Urinary Organs. Pp. 822. 1920. Baillière. 3 vols., £5.

Elmslie, R. C. The After Treatment of Wounds and Injuries. 8vo. Pp. 332. 1919. Churchill. 15s.

Mummery, J. P. L. After-Treatment of Operations. 4th edn. Cr. 8vo. Pp. 286. 1916. Baillière. 6s.

Todd, A. H. A Practical Handbook of Surgical After-Treatment. Cr. 8vo. Pp. 268. 1915. Arnold. 5s.

Turner, W., and Carling, E. R. Treatment after Operation: with a chapter on the Eye, by L. V. Cargill. Demy 8vo. Pp. 248. 1912. University of London Press. 10s. 6d.

v. ANÆSTHETICS.

Barton, G. A. H. A Guide to the Administration of Ethyl-Chloride. 2nd edn. Demy 8vo. Pp. 54. 1907. Lewis. 2s.

Blomfield, J. Anæsthetics. A Practical Handbook. 4th edn. Cr. 8vo. Pp. 151. 1918. Baillière. 6s.

Boyle, H. E. G. Practical Anæsthetics. 2nd edn. Cr. 8vo. Pp. 219. 1911. Frowde & Hodder. 6s.

Buxton, D. W. Anæsthetics: their Uses and Administration. 6th edn. Demy 8vo. Pp. 562. 1920. Lewis. 21s.

Collum, R. W., and Gray, Sir H. W. M. The Practice of Anæsthetics and General Surgical Technique. Large Cr. 8vo. Pp. 398. 1909. Bale & Danielsson. 10s.

Gardner, H. B. Surgical Anæsthesia. 2nd edn. Demy 8vo. Pp. 232. 1916. Baillière. 8s. 6d.

Hirschel, G. Text-book of Local Anæsthesia, for Students and Practitioners. Translated by R. E. S. Krohn. Roy. 8vo. Pp. 193. 1915. Bale & Danielsson. 8s. 6d.

Hobday, F. T. G. Anæsthesia and Narcosis of Animals and Birds. Demy 8vo. Pp. 98. 1915. Baillière. 5s.

Surgery.

Lawrie, E. Chloroform: A Manual for Students and Practitioners. Cr. 4to. Pp. 120. 1901. Churchill. 5s.

Luke, T. D. Guide to Anæsthetics for the Student and Practitioner. 4th edn. 8vo. Pp. 165. 1908. W. Green. 5s.

Mortimer, J. D. Anæsthesia and Analgesia. Cr. 8vo. Pp. 384. 1911. University of London Press. 6s.

Probyn-Williams, R. J. A Practical Guide to the Administration of Anæsthetics. 2nd edn. Cr. 8vo. Pp. 236. 1909. Longmans. 5s. 6d.

Ross, J. S. A Handbook of Anæsthetics. With Chapters upon Local and Spinal Anæsthesia, by W. Q. Wood, and upon Intratracheal Anæsthesia, by H. T. Thomson. Cr. 8vo. Pp. 226. 1919. Livingstone. 7s. 6d.

Silk, J. F. W. Modern Anæsthetics. 2nd edn. Cr. 8vo. Pp. 206. 1920. Arnold. 7s. 6d.

vi. ASEPSIS AND ANTISEPSIS.

Lockwood, C. B. Aseptic Surgery. 3rd edn. Cr. 8vo. Pp. 287. 1909. Frowde & Hodder. 6s.

Upcott, H. Antiseptic Methods for Surgical Nurses and Dressers. Cr. 8vo. Pp. 60. 1907. Baillière. 2s. 6d.

Vallack, A. S. Principles and Practice of Asepsis. Cr. 8vo. Pp. 106. 1905. Baillière. 2s. 6d.

vii. NURSING.

Bishop, E. S. Lectures on Surgical Nursing. Fcap. 8vo. Pp. 143. 1909. John Wright. 2s. 6d.

Childe, C. P. Surgical Nursing and Technique: A Book for Nurses, Dressers, House Surgeons, etc. 3rd edn. Cr. 8vo. Pp. 248. 1920. Baillière. 6s.

Darling, H. C. R. Surgical Nursing and After-treatment. Cr. 8vo. Pp. 500. 1917. Churchill. 8s. 6d.

Howard, R. Surgical Nursing and the Principles of Surgery for Nurses. 4th edn. Cr. 8vo. Pp. 336. 1920. Arnold. 7s. 6d.

Miles, A. Surgical Ward Work and Nursing. A Handbook for Nurses and others. 4th edn. Demy 8vo. Pp. 426. 1921. Scientific Press. 10s. 6d.

viii. FRACTURES.

Groves, E. W. H. Modern Methods of Treating Fractures. Demy 8vo. Pp. 286. 1916. John Wright. 7s. 6d.

Imbert, L., and Réal, P. Fracture of the Lower Jaw. Edited by Sir J. F. Colyer. Cr. 8vo. Pp. 188. 1918. University of London Press. 7s. 6d.

Leriche, R. The Treatment of Fractures. Edited by F. F. Burghard. 2 vols. Cr. 8vo. 1918. Vol. 1. Fractures involving Joints. Pp. 240. Vol. 2. Fractures of the Shaft. Pp. 330. University of London Press. 7s. 6d. each vol.

Mennell, J. B. The Treatment of Fractures by Mobilisation and Massage. 8vo. Pp. 474. 1911. Macmillan. 12s.

Pearson, M. G., and Drummond, J. Fractured Femurs. Their Treatment by Calliper Extension. 8vo. Pp. 104. 1919. Frowde & Hodder. 10s. 6d.

Pringle, J. H. Fractures and Their Treatment. Roy. 8vo. Pp. 396. 1910. Frowde & Hodder. 17s.

Romer, F. Modern Bonesetting for the Medical Profession. Demy 8vo. Pp. 88. 1915. Heinemann. 5s.

Walton, A. J. Fractures and Separated Epiphyses. Demy 8vo. Pp. 296. 1910. Arnold. 10s. 6d.

ix. MINOR SURGERY; BANDAGING; EMERGENCIES, ETC.

Bidwell, L. A. Minor Surgery. 2nd edn. Demy 8vo. Pp. 300. 1912. University of London Press. 10s. 6d.

- Cope, V. Z.** *Pye's Elementary Bandaging and Surgical Dressing.* 14th edn. Pocket size. Pp. 232. 1919. John Wright. 3s. 6d.
- Fitzwilliams, D.C.L.** *A Practical Manual of Bandaging.* Demy 8vo. Pp. 199. 1915. Baillière. 4s.
- MacLeod, J. M. H.** *Burns and their Treatment. Including Dermatitis from High Explosives.* Fcap. 8vo. Pp. 179. 1918. Frowde & Hodder. 6s.
- Pye's Surgical Handicraft.** *A Manual of Surgical Manipulations, Minor Surgery, and other Matters connected with the work of House Surgeons, Surgical Dressers, etc.* Edited and re-written by W. H. Clayton-Greene. 8th edn. Demy 8vo. Pp. 639. 1919. John Wright. 21s. *
- Rankin, W.** *Elements of Bandaging and the Treatment of Fractures and Dislocations.* Cr. 8vo. Pp. 126. 1913. Frowde & Hodder. 6s.
- Sargent, P.** *Surgical Emergencies.* Cr. 8vo. Pp. 256. 1907. Frowde & Hodder. 6s.
- Williams, G.** *Minor Surgery and Bandaging: For the use of House-Surgeons, Dressers, and Junior Practitioners.* 17th edn. Cr. 8vo. Pp. 460. 1919. Churchill. 10s. 6d.
- x. WAR SURGERY AND GUNSHOT WOUNDS.**
- Dupuy, G. M.** *The Stretcher Bearer.* Oblong Fcap. 8vo. Pp. 160. 1915. Frowde & Hodder. 2s.
- Duval, P.** *War Wounds of the Lung: Notes on their Surgical Treatment. Authorised English Translation.* Large 8vo. Pp. 99. 1918. John Wright. 8s. 6d.
- Gray, Sir H. W. M.** *Early Treatment of War Wounds.* Demy 8vo. Pp. 315. 1919. Frowde & Hodder. 10s.
- Grégoire, R., and Courcoax, Dr.** *Wounds of the Pleura and Lung.* Edited by C. H. Fagge. Cr. 8vo. Pp. 234. 1919. University of London Press. 7s. 6d.
- Groves, E. W. H.** *Gunshot Injuries of Bones.* Fcap. 8vo. Pp. 128. 1915. Frowde & Hodder. 3s. 6d.
- Hughes, B., and Banks, H. S.** *War Surgery from Firing Line to Base.* With special chapters by L. F. Smith and Miss C. Bilton. Roy. 8vo. Pp. 634. 1918. Baillière. 30s.
- Hull, A. J., and other contributors.** *Surgery in War.* 2nd edn. 8vo. Pp. 640. 1918. Churchill. 25s.
- Makins, Sir G. H.** *Gunshot Injuries of the Arteries.* Demy 8vo. Pp. 64. 1914. Frowde & Hodder. 2s. 6d.
- *Gunshot Injuries to the Blood-Vessels. Founded on Experience gained in France during the Great War, 1914-1918.* Large 8vo. Pp. 251. 1919. John Wright. 21s.
- Morison, J. R.** *Bipp Treatment of War Wounds.* Fcap. 8vo. Pp. 71. 1918. Frowde & Hodder. 2s. 6d.
- Murphy, J. K.** *Wounds of the Thorax in War.* Fcap. 8vo. Pp. 156. 1915. Frowde & Hodder. 3s. 6d.
- Ombredanne, Prof., and Ledoux-Lebard, M.** *Localisation and Extraction of Projectiles.* Edited by A. D. Reid. Cr. 8vo. *Pp. 411. 1918. University of London Press. 12s. 6d.
- Page, C. M.** *The Field Service Pocket-Book.* Fcap. 8vo. Pp. 174. 1917. Frowde & Hodder. 6s.
- Penhallow, D. P.** *Military Surgery.* 2nd edn. Demy 8vo. Pp. 575. 1918. Frowde & Hodder. 21s.
- Sencert, L.** *Wounds of the Blood-Vessels.* Edited by F. F. Burghard. Cr. 8vo. Pp. 288. 1918. University of London Press. 7s. 6d.
- Smith, F.** *Modern Bullet Wounds and Modern Treatment, with Special Regard to Long Bones and Joints, Field Appliances and First Aid.* Cr. 8vo. Pp. 96. 1903. Churchill. 3s.
- Spencer, C. G.** *Gunshot Wounds.* Cr. 8vo. Pp. 299. 1908. Frowde & Hodder. 6s.

Wallace, C. War Surgery of the Abdomen. 8vo. Pp. 152. 1918. Churchill. 10s. 6d.

— and **Fraser, J.** Surgery at a Casualty Clearing Station. Cr. 8vo. Pp. 320. 1918. Black. 10s. 6d.

xi. REGIONAL SURGERY.

a. Head and Neck.

Ballance, Sir C. A. Some Points in the Surgery of the Brain and its Membranes. 2nd edn. 8vo. Pp. 468. 1908. Macmillan. 15s.

— Essays on the Surgery of the Temporal Bone. 2 Vols. Demy 4to. Pp. 278., 372. 1919. Macmillan. 105s.

Bell, W. B. The Pituitary. A Study of the Morphology, Physiology, Pathology, and Surgical Treatment of the Pituitary, together with an Account of the Therapeutic Uses of the Extracts made from this Organ. Roy. 8vo. Pp. 368. 1919. Baillière. 30s.

Bourget, J. Mis-shapen Noses and their Surgical Correction without Cicatrix. Roy. 8vo. Pp. 72. 1920. Baillière. 3s.

Chatelin, C., and De Martel, T. Wounds of the Skull and the Brain: Clinical Forms and Medico-Surgical Treatment. Edited by F. F. Burgard. Cr. 8vo. Pp. 336. 1918. University of London Press. 8s. 6d.

Martinier, P., and Lemerle, G. Injuries of the Face and Jaw and their Repair and the Treatment of Fractured Jaws. Translated by H. L. Whale. Small Cr. 8vo. Pp. 361. 1917. Baillière. 5s.

Murray, R. W. Hare Lip and Cleft Palate. Demy 8vo. Pp. 29. 1902. Churchill. 3s.

Owen, E. Cleft-Palate and Hare Lip: the Earlier Operation on the Palate. Cr. 8vo. Pp. 112. 1904. Baillière. 2s. 6d.

Rawling, L. B. The Surgery of the Skull and Brain. Cr. 4to. Pp. 351. 1912. Frowde & Hodder. 25s.

— Surgery of the Head. Fcap. 8vo. Pp. 150. 1915. Frowde & Hodder. 3s. 6d.

West, C. E., and Scott, S. R. The Operations of Aural Surgery, together with those for the Relief of the Intracranial complications of Suppurative Otitis Media. Demy 8vo. Pp. 213. 1909. Lewis. 7s. 6d.

Whale, H. L. Injuries to the Head and Neck. Demy 8vo. Pp. 342. 1919. Baillière. 15s.

b. Lungs and Heart.

Ballance, Sir C. A. The Bradshaw Lecture on the Surgery of the Heart. Delivered before the Royal College of Surgeons, Dec. 11, 1919. Demy 8vo. Pp. 154. 1920. Macmillan. 10s. 6d.

Garré, C., and Quincke, H. Surgery of the Lung. Translated from the German by D. M. Barcroft. 2nd edn. Roy. 8vo. Pp. 279. 1913. Bale & Danielsson. 12s. 6d.

c. Abdomen.

Abadie, G. Wounds of the Abdomen. Edited by Sir W. A. Lane. Cr. 8vo. Pp. 316. 1918. University of London Press. 8s. 6d.

Barnard, H. L. Contributions to Abdominal Surgery. Demy 8vo. Pp. 411. 1910. Arnold. 16s.

Battle, W. H., and Corner, E. M. The Surgery of the Diseases of the Appendix Vermiformis and their Complications. 2nd edn. Demy 8vo. Pp. 308. 1911. Constable. 10s. 6d.

Bidwell, A. L. A Handbook of Intestinal Surgery. 2nd edn. Demy 8vo. Pp. 230. 1910. Baillière. 6s.

Cripps, H. Cancer of the Rectum, especially considered with regard to its Surgical Treatment. 6th edn. 8vo. Pp. 266. 1913. Churchill. 5s.

Hill, W. On Gastroscopy. Demy 8vo. Pp. 54. 1912. Bale & Danielsson. 3s. 6d.

Hood, D. W. C. The Early Treatment of Appendicitis. Demy 8vo. Pp. 42. 1900. Bale & Danielsson. 2s. 6d.

Lane, Sir W. A. Operative Treatment of Chronic Intestinal Stasis. 4th edn. Demy 8vo. Pp. 340. 1918. Frowde & Hodder. 20s.

Lockwood, C. B. Appendicitis: its Pathology and Surgery. 2nd edn. 8vo. Pp. 356. 1906. Macmillan. 10s.

Maylard, A. E. Practice and Problem in Abdominal Surgery. Med. 8vo. Pp. 402. 1913. Churchill. 8s. 6d.

Morison, J. R., and Richardson, W. G. Abdominal Injuries. Fcap. 8vo. Pp. 116. 1915. Frowde & Hodder. 3s. 6d.

Mummery, J. P. L. Diseases of the Colon and their Surgical Treatment. Demy 8vo. Pp. 328. 1910. Baillière. 10s.*

Owen, E. Appendicitis: A Plea for Immediate Operation. Cr. 8vo. Pp. 214. 1914. John Wright. 8s. 6d.

Robson, Sir A. W. M., and Cambridge, P. J. Gall-Stones: Their Complications and Treatment. Cr. 8vo. Pp. 326. 1909. Frowde & Hodder. 6s.

— and **Moynihan, Sir B. G. A.** Diseases of the Stomach and their Surgical Treatment. 2nd edn. Demy 8vo. Pp. 524. 1904. Baillière. 15s.

Wallis, Sir F. C. Surgery of the Rectum for Practitioners. Demy 8vo. Pp. 370. 1912. Frowde & Hodder. 17s.

— Surgery of the Rectum. 8vo. Pp. 174. 1907. Baillière. 6s.

d. Amputations.

Broca, A. Ligations and Amputations for Students and Practitioners. Translated by E. Ward. Demy 8vo. Pp. 285. 1917. John Wright. 8s. 6d.

Huggins, G. M. Amputation Stumps—Their Care and After Treatment. Fcap. 8vo. Pp. 240. 1918. Frowde & Hodder. 7s. 6d.

e. Genito-Urinary Organs.

Clarke, W. B. Handbook of the Surgery of the Kidneys. Demy 8vo. Pp. 209. 1911. Frowde & Hodder. 12s. 6d.

Deanesly, E. Modern Methods of Diagnosis in Urinary Surgery. Cr. 8vo. Pp. 104. 1907. Lewis. 3s.

Freyer, Sir P. J. Clinical Lectures on Enlargement of the Prostate, with a description of the Author's Operation of Total Enuclation of the Organ. 5th edn. Demy 8vo. Pp. 182. 1920. Baillière. 10s. 6d.

— Clinical Lectures on the Surgical Diseases of the Urinary Organs. 2nd edn. in preparation. Baillière.

Herring, H. T. The Sterilisation of Urethral Instruments, and their Use in some Urinary Complaints. Demy 8vo. Pp. 192. 1903. Lewis. 5s.

Kidd, F. Urinary Surgery: A Review. 8vo. Pp. 446. 1910. Longmans. 7s. 6d.

Lumb, N. P. L. The Urethroscope in the Diagnosis and Treatment of Urethritis. Demy 8vo. Pp. 64 and 13 Plates. 1919. Bale & Danielsson. 10s. 6d.

Walker, J. W. T. Surgical Diseases and Injuries of the Genito-Urinary Organs. 2nd edition in preparation. Cassell.

— Estimation of the Renal Function in Urinary Surgery. Demy 8vo. Pp. 274. 1908. Cassell. 7s. 6d.

Wallace, Sir C. S. Prostatic Enlargement. Demy 8vo. Pp. 222. 1907. Frowde & Hodder. 14s.

xli. SURGICAL DISEASES.

a. Hernia.

Eccles, W. McA. Hernia: Its Etiology, Symptoms, and Treatment. 3rd edn. Demy 8vo. Pp. 254. 1908. Baillière. 7s. 6d.

Moullin, C. W. M. The Surgical Treatment of Ulcer of the Stomach. Demy 8vo. Pp. 58. 1902. Bale & Danielsson. 2s. 6d.

Murray, R. W. *Hernia: Its Cause and Treatment.* 2nd edn. 8vo. Pp. 102. 1910. Churchill. 6s.

Turner, P. *Inguinal Hernia: The Imperfectly Descended Testicle and Varicocele.* 8vo. Pp. 110. 1919. Churchill. 10s. 6d.

b. Tumours.

Bland-Sutton, Sir J. *Tumours, Innocent and Malignant.* 6th edn. Demy 8vo. Pp. 780. 1917. Cassell. 21s.

Cathcart, C. W. *The Essential Similarity of Innocent and Malignant Tumours. A Study of Tumour Growth.* Imp. 8vo. Pp. 79. 1907. John Wright. 3s.

Emery, W. D'E. *Tumours: their Nature and Causation.* Cr. 8vo. Pp. 166. 1918. Lewis. 6s.

Fenwick, W. S. *Cancer and other Tumours of the Stomach.* Roy. 8vo. Pp. 380. 1902. Churchill. 10s. 6d.

Kettle, E. H. *The Pathology of Tumours.* Demy 8vo. Pp. 232. 1916. Lewis. 12s. 6d.

Lockyer, C. *Fibroids and Allied Tumours (Myoma and Adenomyoma): their Pathology, Clinical Features, and Surgical Treatment.* Super Roy. 8vo. Pp. 624. 1919. Macmillan. 63s.

Moullin, C. M. *The Biology of Tumours.* Demy 8vo. Pp. 55. 1916. Lewis. 2s. 6d.

White, C. P. *Tumours: Pathology of Growth.* Demy 8vo. Pp. 247. 1913. Constable. 10s. 6d.

Wyllie, J. *Tumours of the Cerebellum.* Post 8vo. Pp. 119. 1908. Lewis. 4s.

c. Diseases of the Locomotive System.

Bristow, W. R. *Treatment of the Joint and Muscle Injuries.* Demy 8vo. Pp. 160. 1917. Frowde & Hodder. 6s.

Broca, A. *Disabilities of the Locomotor Apparatus: the Result of War Wounds.* Translated by J. R. White, edited by Sir R. Jones. Cr. 8vo. Pp. 268. 1918. University of London Press. 7s. 6d.

Jones, Sir R. *Injuries to Joints.* 2nd edn. Fcap. 8vo. Pp. 196. 1920. Frowde & Hodder. 6s.

Shenton, E. W. H. *Disease in Bone and its Detection by the X-Rays.* 8vo. Pp. 84. 1911. Macmillan. 4s. 6d.

White, J. R. *Chronic Traumatic Osteomyelitis: Its Pathology and Treatment.* Demy 8vo. Pp. 159. 1919. Lewis. 12s. 6d.

Whitelocke, R. H. A. *Sprains and Allied Injuries of Joints.* 2nd edn. Demy 8vo. Pp. 299. 1910. Frowde & Hodder. 8s. 6d.

xiii. ORTHOPÆDIC SURGERY.

Broca, A., and Ducroquet, D. *Artificial Limbs.* Translated and edited by R. C. Elmslie. Cr. 8vo. Pp. 172. 1918. University of London Press. 7s. 6d.

Calot, F. *Indispensable Orthopædics.* Translated from the French by A. H. Robinson. 2nd edn. in preparation. Baillière.

Dampier-Bennett, A. G. *Re-education of Co-ordination by Movements: with special Reference to Locomotor Ataxy.* 8vo. 1907. John Wright. 10s. 6d.

Daw, S. W. *Orthopædic Effects of Gunshot Wounds and their Treatment.* Fcap. 8vo. Pp. 242. 1919. Frowde & Hodder. 7s. 6d.

Falconer, W. W. *Arthrometry, or the Measurement of the Movements of Joints. Notes of a New and Simple System for showing the Mobility of injured limbs by means of an Instrument called an Arthrometer.* Demy 8vo. Pp. 27. 1918. Bale & Danielsson. 2s. 6d.

Jansen, M. *On Bone Formation, its Relation to Tension and Pressure.* 8vo. Pp. 124. 1921. Longmans. 20s.

- Jones, Sir R.**, (edited by). *Orthopædic Surgery of Injuries*. By Various Authors. 2 Vols. Roy. 8vo. Pp. 540., 692. 1921. Frowde & Hodder. 70s.
- *Notes on Military Orthopædics*. Demy 8vo. Pp. 143. 1918. Cassell. 3s. 6d.
- Lorenz, A., and Saxl, A.** *Orthopædics in Medical Practice*. Translated by L. C. P. Ritchie. Demy 8vo. Pp. 300. 1913. Bale & Danielsson. 7s. 6d.
- Roth, P. B.** *Notes on Military Orthopædics*. Cr. 8vo. Pp. 56. 1916. Kimpton. 1s. 6d.
- *Orthopædics for Practitioners. An Introduction to the Practical Treatment of the Commoner Deformities*. 8vo. Pp. 207. 1920. Arnold. 10s. 6d.
- xiv. DEFORMITIES AND THEIR SURGICAL TREATMENT.**
- Barwell, R.** *Lateral Curvature of the Spine and Pelvic Deviations*. 6th edn. Cr. 8vo. Pp. 115. 1905. Baillière. 3s.
- Bennie, P. B. and A. B.** *Rational and Effective Treatment of Hip Disease*. Demy 8vo. Pp. 120. 1907. Baillière. 5s.
- Bigg, R. H.** *Caries of the Spine, being an advanced chapter of the Spine, its Deformities, Debilities, and Deficiencies*. 8vo. Pp. 82. 1902. Churchill. 2s. 6d.
- *An Essay on the General Principles of the Treatment of Spinal Curvatures*. 8vo. Pp. 248. 1906. Churchill. 5s.
- Chance, E. J.** *On the Nature, Causes, and Treatment of Bodily Deformities*. Edited by J. Poland. Cr. 8vo. Vol. 1. Pp. 315. 1905. 7s. 6d. Vol. 2. Pp. 338. 1919. 18s. Murray.
- Clarke, J. J.** *Congenital Dislocation of the Hip*. Demy 8vo. Pp. 100. 1910. Baillière. 3s. 6d.
- Jansen, M.** *Achondroplasia: its Nature and its Cause. A Study of the Stunting of Growth in the Different Stages of Development of the Skeleton*. Demy 4to. Pp. 106. 1912. Baillière. 6s.
- Smith, J. S. K.** *Lateral Curvature of the Spine and Flat Foot: Their Treatment by Exercises*. Demy 8vo. Pp. 137. 1911. John Wright. 6s. 6d.
- Tubby, A. H.** *Deformities, including Diseases of the Bones and Joints*. 2nd edn. 2 Vols. 8vo. Pp. 916., 890. 1912. Macmillan. 45s.

OPHTHALMOLOGY.

1. GENERAL TREATISES AND OPERATIVE OPHTHALMOLOGY.

- Adams, P. E. H.** Pathology of the Eye. Cr. 8vo. Pp. 204. 1912. Frowde & Hodder. 6s.
- Axenfeld, T.** Bacteriology of the Eye. Translated by A. MacNab. Roy. 8vo. Pp. 418. 1908. Baillière. 10s. 6d.
- Ballantyne, A. J.** A Pocket Book of Ophthalmology. Cr. 8vo. Pp. 119. 1920. Livingstone. 5s. 6d.
- Berry, G. A.** Manual of Practical Ophthalmology. Cr. 8vo. Pp. 590. 1904. Frowde & Hodder. 12s. 6d.
- Catechism Series.** Diseases of the Eye. Written by W. G. Sym. Livingstone. 1s. 9d.
- Elliot, R. H.** Tropical Ophthalmology. Demy 8vo. Pp. 550. 1920. Frowde & Hodder. 31s. 6d.
- Forrest, J.** Eye, Nose, Throat, and Ear. A Manual for Practitioners and Students. Demy 8vo. Pp. 412. 1914. Kimpton. 10s. 6d.
- Grimsdale, H. B., and Brewerton, E. W.** Ophthalmic Operations. Demy 8vo. Pp. 436. 1920. Baillière. 21s.
- Harman, N. B.** Aids to Ophthalmology. 6th edn. Fcap. 8vo. Pp. 234. 1919. Baillière. 3s. 6d.
- Higgins, C.** A Manual of Ophthalmic Practice. 2nd edn. Revised by A. W. Ormond. Cr. 8vo. Pp. 383. 1903. Lewis. 7s. 6d.
- Hinshelwood, J.** Congenital Word-Blindness. Cr. 8vo. Pp. 121. 1917. Lewis. 4s.
- Letter, Word, and Mind-Blindness. Cr. 8vo. Pp. 88. 1900. Lewis. 3s.
- Jessop, W. H. H.** Manual of Ophthalmic Surgery and Medicine. 2nd edn. Cr. 8vo. Pp. 550. 1908. Churchill. 10s. 6d.
- Juler, H. E.** A Handbook of Ophthalmic Science and Practice. 3rd edn. Demy 8vo. Pp. 733. 1904. Murray. 21s.
- Marshall, C. D.** Diseases of the Eyes. 8vo. Pp. 320. 1912. University of London Press. 10s. 6d.
- May, C. H.** Manual of the Diseases of the Eye: for Students and Practitioners. 4th edn. Demy 8vo. Pp. 452. 1920. Baillière. 18s.
- Maynard, F. P.** Manual of Ophthalmic Operations. 2nd edn. Roy. 8vo. Pp. 267. 1921. Livingstone. 21s.
- Mayou, M. S.** Diseases of the Eye. 3rd edn. Cr. 8vo. Pp. 342. 1920. Frowde & Hodder. 10s. 6d.
- Parsons, J. H.** The Ocular Circulation. Demy 8vo. Pp. 84. 1903. Bale & Danielsson. 3s.
- Diseases of the Eye. 3rd edn. 8vo. Pp. 676. 1918. Churchill. 18s.
- The Pathology of the Eye. 4 Vols. Roy. 8vo. Vols. 2 and 3. (Vols. 1 and 4 out of print). Frowde and Hodder. 15s. each.
- Ramsay, A. M.** Clinical Ophthalmology for the General Practitioner. Cr. 4to. Pp. 520. 1920. Frowde & Hodder. 42s.
- Diathesis and Ocular Diseases. Cr. 8vo. Pp. 192. 1909. Baillière. 5s.
- **Grant, J. D., Whale, H. L. and West, C. E.** Injuries of the Eyes, Throat, Nose and Ears. Fcap. 8vo. Pp. 160. 1915. Frowde & Hodder. 3s. 6d.

Swanzy, H. R. Handbook of the Diseases of the Eye and their Treatment. Revised and edited by L. Werner. 12th edn. Demy 8vo. Pp. 689. 1919. Lewis. 22s. 6d.

Sym, W. G. Diseases and Injuries of the Eye. A Text-book for Students and Practitioners. Cr. 8vo. Pp. 493. 1913. Black. 12s. 6d.

Yarr, Sir M. Manual of Military Ophthalmology for the Use of Medical Officers of the Home, Indian, and Colonial Services. 2nd edn. Cr. 8vo. Pp. 228. 1909. Cassell. 6s.

ii. EXAMINATION OF THE EYE; OPHTHALMOSCOPY.

Allbutt, Sir T. C. On the Use of the Ophthalmoscope. 8vo. Pp. 422. 1871. Macmillan. 15s.

Fisher, J. H. Ophthalmological Anatomy, with some Illustrative Cases. Roy. 8vo. Pp. 196. 1904. Frowde & Hodder. 8s. 6d.

Frost, W. A. The Fundus Oculi. An Ophthalmoscopic Atlas, Illustrating its Physiological and Pathological Conditions. 4to. 47 Plates. 1901. Frowde & Hodder. 63s.

Gowers, Sir W. R., and Gunn, M. A Manual and Atlas of Medical Ophthalmoscopy. 4th edn. 8vo. Pp. 330. 1904. Churchill. 14s.

Gray, K. J. The Human Eye. 24 fully-covered diagrams, describing and illustrating its Structures, Functions, Diseases and Attachments, with special reference to it as an Optical Instrument. Oblong 4to. Sampson, Low. 21s.

Hardwicke, W. W. Sight Testing Made Easy. 4th edn. Cr. 8vo. Pp. 88. 1920. Churchill. 5s.

Hartridge G. The Ophthalmoscope. A Manual for Students. 6th edn. Cr. 8vo. Pp. 160. 1919. Churchill. 6s. 6d.

Landolt, E. and M. Defective Ocular Movements and their Diagnosis. 8vo. Pp. 97. 1913. Frowde & Hodder. 6s. 6d.

Maddox, E. E. Ophthalmological Prisms and the Decentring of Lenses. A Practical Guide to the Uses and Construction of Prisms and Prismatic Combinations, and the Centring of Spectacle Lenses. 5th edn. Pp. 205. 1907. John Wright. 6s. 6d.

Thompson, S. P. Optical Tables and Data, for the use of Opticians. 2nd edn. Oblong 8vo. Pp. 130. 1907. Spon. 7s. 6d.

Thomson, A. The Anatomy of the Human Eye. 67 Stereoscopic photographs in box, with letter-press and Key plates. Roy. 8vo. Pp. 62. 1912. Oxford: Clarendon Press. 63s.

iii. DISEASES OF THE CONJUNCTIVA.

Boldt, J. Trachoma. Translated by J. H. Parsons and T. Snowball. Roy. 8vo. Pp. 284. 1904. Frowde & Hodder. 8s. 6d.

MacCallan, A. F. Trachoma and its Complications in Egypt. Demy 8vo. Pp. 80. 1913. Cambridge University Press. 7s. 6d.

Mayou, M. S. The Changes Produced by Inflammation in the Conjunctiva. Demy 8vo. Pp. 179. 1905. Bale & Danielsson. 10s. 6d.

iv. DISEASES OF THE LENS: CATARACT.

Elliot, R. H. The Indian Operation of Couching for Cataract. Roy. 8vo. Pp. 106. 1917. Lewis. 7s. 6d.

Herbert, H. Cataract Extraction. 3rd edn. Pp. 399. 1908. Baillière. 12s. 6d.

v. DISEASES OF THE OPTIC NERVE.

Onodi, A. The Optic Nerve and the Accessory Sinuses of the Nose. A Contribution to the Study of Canalicular Neuritis and Atrophy of the Optic Nerve of Nasal Origin. Translated by L. Luckhoff. Small 4to. Pp. 110. 1910. Baillière. 10s. 6d.

Parsons, J. H. The Neurology of Vision. Two Lectures: The Afferent Visual Paths; The Innervation of the Pupil. Demy 8vo. Pp. 70. 1904. Frowde & Hodder. 2s. 6d.

vi. PARALYSIS OF THE EYE.

Hughes, E. L. Squint, and Ocular Paralysis: with a short account of the Disturbances of Muscle Balance. Demy 8vo. Pp. 216. 1907. Lewis. 7s. 6d.

Worth, C. A. Squint, its Cause, Pathology and Treatment. 5th edn. Demy 8vo. Pp. 260. 1921. Baillière. 12s. 6d.

vii. WOUNDS AND INJURIES.

Beaumont, W. M. Injuries of the Eyes of the Employed, and the Workmen's Compensation Act: Problems in Prognosis. Cr. 8vo. Pp. 168. 1907. Lewis. 5s.

Lagrange, F. Fractures of the Orbit and Injuries of the Eye in War. Translated by H. Child and edited by J. H. Parsons. Cr. 8vo. Pp. 260. 1918. University of London Press. 7s. 6d.

viii. GLAUCOMA.

Elliot, R. H. Glaucoma: A Text-book for the Students of Ophthalmology. Demy 8vo. Pp. 562. 1918. Lewis. 25s.

— Glaucoma. A Handbook for the General Practitioner. Demy 8vo. Pp. 71. 1917. Lewis. 4s.

Henderson, T. Glaucoma. An Inquiry into the Physiology and Pathology of the Intra-Ocular Pressure. Demy 8vo. Pp. 238. 1910. Arnold. 10s. 6d.

ix. COLOUR BLINDNESS.

Edridge-Green, F. W. The Physiology of Vision: with special reference to Colour Blindness. 8vo. Pp. 292. 1920. Bell. 12s.

— The Hunterian Lectures on Colour-Vision and Colour-Blindness. 8vo. Pp. 76. 1911. Kegan Paul. 5s.

x. REFRACTION AND OPTICAL DEFECTS.

“**An Ophthalmic Surgeon.**” The Optician's Handbook: An Introduction to the Study of the Refraction of the Eye, its Anomalies, and their Estimation and Correction by means of Glasses. Cr. 8vo. Pp. 78. N.D. Hatton Press. 4s.

Blair, C. Errors of Refraction, and their Treatment. A Clinical Pocket book for Practitioners and Students. 2nd edn. Pp. 106. 1910. John Wright. 2s. 6d.

Clarke, E. Problems in the Accommodation and Refraction of the Eye: a brief Review of the Work of Donders and the Progress made during the last fifty years. Roy. 8vo. Pp. 120. 1914. Baillière. 2s. 6d.

— Errors of Accommodation, and Refraction of the Eye: a Handbook for Students. 4th edn. Cr. 8vo. Pp. 252. 1918. Baillière. 7s. 6d.

Hartridge, G. The Refraction of the Eye. A Manual for Students. 16th edn. Cr. 8vo. Pp. 294. 1919. Churchill. 7s. 6d.

Lohmann, W. Disturbances of the Visual Functions. Translated by A. MacNab. Roy. 8vo. Pp. 185. 1913. Bale and Danielsson. 15s.

Morton, A. S. Refraction of the Eye: its Diagnosis and the Correction of its Errors. 7th edn. Small 8vo. Pp. 104. 1906. Lewis. 5s.

Muirhead, I. B. Extra-Ocular Pressure and Myopia. Cr. 8vo. Pp. 104. 1916. Bale and Danielsson. 3s. 6d.

Parsons, J. H. Elementary Ophthalmic Optics, including Ophthalmoscopy and Retinoscopy. 8vo. Pp. 170. 1901. Churchill. 6s. 6d.

xi. THERAPEUTICS; SPECTACLES, etc.

Adam, C. Handbook of Treatment for Diseases of the Eye (Ophthalmic Therapeutics). Translated from the German by W. G. Sym and E. M. Lithgow. Cr. 8vo. Pp. 264. 1911. Heinemann. 10s.

Ophthalmology.

Burnham, G. H. The Combined Treatment in Diseases of the Eye. Cr. 8vo. Pp. 100. 1906. Lewis. 3s.

Fergus, F. Elementary Ophthalmic Optics. Cr. 8vo. Pp. 106. 1903. Blackie. 3s. 6d.

Percival, A. S. The Prescribing of Spectacles. 2nd edn. Cr. 8vo. Pp. 168. 1912. John Wright. 5s. 6d.

Raxworthy, H. C. Prescription Pitfalls, and How to Avoid them, for Opticians. Demy 8vo. Pp. 38. 1918. Hatton Press. 1s. 6d.

OTOLOGY; RHINOLOGY; LARYNGOLOGY.

i. GENERAL TREATISES.

- Biggs, G. N.** Diseases of the Ear, Nose, and Throat. Demy 8vo. Pp. 486. 1914. University of London Press. 10s. 6d.
- Friel, A. R.** Obiter Scripta: Throat, Nose, and Ear. For the General Practitioner. Cr. 8vo. Pp. 40. 1914. John Wright. 2s. 6d.
- Kelson, W. H.** Diseases of the Throat, Nose and Ear. Demy 8vo. Pp. 285. 1915. Frowde and Hodder. 10s. 6d.
- Lamb, W.** Practical Guide to the Diseases of the Throat, Nose and Ear: for Senior Students and Practitioners. 4th edn. Cr. 8vo. Pp. 384. 1917. Baillière. 10s. 6d.
- Laurens, G.** Oto-Rhino-Laryngology: for the Student and Practitioner. Translated from the French by H. C. Fox. Demy 8vo. Pp. 339. 1919. John Wright. 17s. 6d.
- McBride, P.** Diseases of the Throat, Nose and Ear. A Clinical Manual for Students and Practitioners. 3rd edn. Roy. 8vo. Pp. 762. 1900. Frowde and Hodder. 25s.
- McKenzie, D.** Diseases of the Throat, Nose and Ear. Roy. 8vo. Pp. 661. 1920. Heinemann. 42s.
- Diagnosis of Diseases in Throat, Nose, and Ear. 2nd edition in preparation. Heinemann.
- Parker, C. A., and Colledge, L.** Diseases of the Nose and Throat, and their Treatment. 2nd edn. Demy 8vo. Pp. 624. 1921. Arnold. 25s.
- Porter, W. G.** Diseases of the Throat, Nose, and Ear. For Practitioners and Students. Revised by A. L. Turner. 3rd edn. Demy 8vo. Pp. 300. 1919. John Wright. 12s. 6d.
- Stuart-Low, W.** The Care of the Nose and Throat. Cr. 8vo. Pp. 79. 1919. Baillière. 3s. 6d.
- Syme, W. S., and S. G.** A Handbook of Diseases of the Ear, Nose, and Throat. Cr. 8vo. Pp. 337. 1920. Livingstone. 9s.
- Thomson, Sir St. C.** Diseases of the Nose and Throat, comprising Affections of the Trachea and Œsophagus. A Text-book for Practitioners and Students. 2nd edn. Med. 8vo. Pp. 858. 1916. Cassell. 30s.
- Tilley, H.** Diseases of the Nose and Throat. 4th edn. Demy 8vo. Pp. 864. 1919. Lewis. 28s.
- Yonge, E. S.** Handbook of the Diseases of the Nose and Throat. 8vo. Pp. 416. 1909. W. Green. 9s.

ii. DISEASES OF THE EAR.

- Bourgeois, H., and Sourdille, Dr.** War Otitis and War Deafness: Diagnosis, Treatment, Medical Reports. Edited by J. Dundas Grant. Cr. 8vo. Pp. 249. 1918. University of London Press. 7s. 6d.
- Gray, A. A.** Otosclerosis (Idiopathic Degenerative Deafness). Demy 8vo. Pp. 211. 1917. Lewis. 15s.
- Diseases of the Ear, with Stereoscope and Stereoscopic Plates. Demy 8vo. Pp. 400. 1910. Baillière. 15s.
- The Labyrinth of Animals, including Mammals, Birds, Reptiles and Amphibians. 1908. 4to. Vol. 1. With 31 Stereoscopic Plates. Pp. 210. 21s. Vol. 2. Pp. 265. 25s. Churchill.

- Heath, C. J.** *Diagnosis and Treatment in Otitis Media (Mastoid Disease).* Demy 8vo. Pp. 58. 1919. Baillière. 2s. 6d.
- Hovell, T. M.** *A Treatise on Diseases of the Ear, including the Anatomy and Physiology of the Organ.* 2nd edn. 8vo. Pp. 850. 1901. Churchill. 21s.
- Lake, R.** *Handbook of Diseases of the Ear for the Use of Students and Practitioners.* 4th edn. Demy 8vo. Pp. 302. 1912. Baillière. 7s. 6d.
- Love, J. K.** *Diseases of the Ear in School Children. An Essay on the Prevention of Deafness.* Cr. 8vo. Pp. 94. 1919. John Wright. 5s. 6d.
- *The Deaf Child. A Manual for Teachers and School Doctors.* Cr. 8vo. Pp. 192. 1911. John Wright. 5s. 6d.
- Milligan, Sir W., and Wingrave, W.** *A Practical Handbook of the Diseases of the Ear.* 8vo. Pp. 624. 1911. Macmillan. 18s.
- Politzer, A.** *A Text-book of the Diseases of the Ear: for Students and Practitioners.* Translated and edited by M. J. Ballin. 5th edn. 8vo. Pp. 906. 1909. Baillière. 25s.
- Tod, F. H.** *Diseases of the Ear.* New edition in preparation. Frowde and Hodder.
- Wrightson, Sir T.** *An Enquiry into the Analytical Mechanism of the Internal Ear. With an Appendix on the Anatomy of the Parts concerned,* by Sir A. Keith. 8vo. Pp. 268. 1918. Macmillan. 12s. 6d.
- Yearsley, M.** *Text-book of Diseases of the Ear.* 8vo. Pp. 463. 1908. Kegan Paul. 18s.
- iii. DISEASES OF THE NOSE.**
- Dighton, C. A.** *A Manual of Diseases of the Naso-Pharynx, with special reference to the part played by them in Disease of the Ear and the Treatment of these conditions.* Roy. 8vo. Pp. 182. 1912. Baillière. 10s. 6d.
- Keegan, D. F.** *Rhinoplastic Operations: with a description of Recent Improvements in the Indian Method.* Roy. 8vo. 1900. Baillière. 5s.
- Onodi, A.** *Relations of the Lachrymal Organs to the Nose and Nasal Accessory Sinuses.* Translated by D. Mackenzie. Imp. 8vo. Pp. 252. 1913. Bale and Danielsson. 10s.
- *The Anatomy and Topography of the Accessory Air Sinuses of the Nose in Childhood.* Translated by C. Prausnitz. Imp. 8vo. Pp. 429. 1911. Bale and Danielsson. 21s.
- Turner, A. L.** *Accessory Sinuses of the Nose: their Surgical Anatomy and the Diagnosis and Treatment of their Inflammatory Affections.* Roy. 8vo. Pp. 225. 1901. W. Green. 12s.
- and Porter, W. G. *The Skiagraphy of the Accessory Nasal Sinuses.* 4to. Pp. 57 and Plates. 1912. W. Green. 16s.
- Waggett, E. B.** *Diseases of the Nose.* 3rd imp. Cr. 8vo. Pp. 294. 1912. Frowde and Hodder. 6s.
- Williams, P. W.** *Rhinology: A Text Book of Diseases of the Nose and the Nasal Accessory Sinuses.* 8vo. Pp. 290. 1910. Longmans. 12s. 6d.
- Yonge, E. S.** *Hay Fever and Paroxysmal Sneezing.* 8vo. Pp. 158. 1910. W. Green. 6s.
- iv. DISEASES OF THE THROAT.**
- Barwell, H.** *Diseases of the Larynx.* 2nd edn. Cr. 8vo. Pp. 300. 1910. Frowde and Hodder. 6s.
- Brunings, W.** *Direct Laryngoscopy, Bronchoscopy, and Esophagoscopy.* Translated and edited by W. G. Howarth. Demy 8vo. Pp. 384. 1912. Baillière. 15s.
- Mann, M. S.** *Text Book of Tracheo-Bronchoscopy, Technical and Practical.* Translated by A. R. Moodie. Roy. 8vo. Pp. 292. 1920. Bale and Danielsson. 31s. 6d.

GYNÆCOLOGY AND OBSTETRICS.

i. DISEASES OF WOMEN.

Berkeley, C. (edited by). *Diseases of Women. By Ten Teachers.* Med. 8vo. Pp. 662. 1919. Arnold. 30s.

Bland-Sutton, Sir J., and Giles, A. E. *The Diseases of Women. A Handbook for Students and Practitioners of Medicine.* 7th edn. Demy 8vo. Pp. 571. 1916. Heinemann. 15s.

Fothergill, W. E. *Manual of Diseases of Women.* Cr. 8vo. Pp. 452. 1910. W. Green. 9s.

Paramore, R. H. *The Statics of the Female Pelvic Viscera.* Vol. 1. Demy 8vo. Pp. 401. 1918. Lewis. 18s.

Phillips, Sir J. *Outlines of the Diseases of Women. A Concise Handbook for Students.* 4th edn. Cr. 8vo. Pp. 296. 1906. Griffin. 7s. 6d.

Stevens, T. G. *Diseases of Women.* New edn. Demy 8vo. Pp. 460. 1919. University of London Press. 20s.

ii. GYNÆCOLOGY.

a. Pathology.

Orthmann, E. G. *A Handbook of Gynecological Pathology.* Translated from the German by C. H. Roberts. Demy 8vo. 1904. Bale and Danielsson. 5s.

Roberts, C. H. *Outlines of Gynecological Pathology and Morbid Anatomy.* Small Roy. 8vo. Pp. 360. 1901. Churchill. 21s.

b. General.

Aarons, S. J. *Aids to Gynecology.* 5th edn. Fcap. 8vo. Pp. 132. 1916. Baillière. 3s.

Ballantyne, J. W. *Essentials of Gynecology.* Cr. 8vo. Pp. 279. 1905. W. Green. 5s.

Bell, W. B. *The Principles of Gynecology. A Manual for Students and Practitioners.* 3rd edn. Roy. 8vo. Pp. 688. 1919. Baillière. 38s.

Berkeley, C., and Bonney, V. A. *Guide to Gynecology in General Practice.* 2nd edn. Cr. 4to. Pp. 491. 1919. Frowde and Hodder. 31s. 6d.

Cameron, S. J. *A Manual of Gynecology for Students and Practitioners.* 2nd edn. Med. 8vo. Pp. 575. 1919. Arnold. 25s.

Catechism Series. *Gynecology.* 4th Reprint. Written by B. P. Watson. Livingstone. 1s. 9d.

Eden, T. W., and Lockyer, C. *Gynecology: General, Regional,* and Operative, for Students and Practitioners.* 2nd edn. Roy. 8vo. Pp. 944. 1920. Churchill. 42s.

—(edited by). *The New System of Gynecology.* By many Writers. 3 Vols. Cr. 4to. Pp. 788., 884., 880. 1917. Macmillan. £6 6s.

Herman, G. E., and Maxwell, R. D. *The Student's Handbook of Gynecology.* 2nd edn. Fcap. 8vo. Pp. 588. 1913. Cassell. 10s.

Jellett, H. *A Practice of Gynecology, being the 4th edn. of "A Short Practice of Gynecology."* Roy. 8vo. Pp. 632. 1916. Churchill. 21s.

—*A Short Practice of Gynecology, being a shortened edition of the above.* Roy. 8vo. Pp. 436. 1917. Churchill. 15s.

Solomons, B. *A Handbook of Gynecology. For the Student and General Practitioner.* Demy 8vo. Pp. 248. 1919. Baillière. 12s.

c. Diagnosis; Operations; Therapeutics.

Aarons, S. J. *Gynæcological Therapeutics.* Cr. 8vo. Pp. 192. 1910. Baillière. 6s.

Barbour, A. H. F., and Watson, B. P. *Gynæcological Diagnosis and Pathology.* New imp. in preparation. W. Green.

Berkeley, C., and Bonney, V. *A Text-book of Gynæcological Surgery.* 2nd edn. Med. 8vo. Pp. 842. 1920. Cassell. 42s.

Giles, A. E. *Gynæcological Diagnosis. A Manual for Students and Practitioners.* Demy 8vo. Pp. 222. 1906. Baillière. 7s. 6d.

— *Gynæcological Nursing.* Cr. 8vo. Pp. 202. 1912. Baillière. 4s. 6d.

McKay, W. J. S. *Operations upon the Uterus, Perineum, and Round Ligaments.* 2nd edn. Demy 4to. Pp. 472. 1911. Baillière. 10s. 6d.

Sloan, S. *Electro-Therapy in Gynæcology.* Demy 8vo. Pp. 298. 1917. Heinemann. 12s. 6d.

d. Disorders; Diseases.

Birnbaum, R. *A Clinical Manual of the Malformations and Congenital Disease of the Fœtus.* Translated and annotated by G. Blacker. Roy. 8vo. Pp. 394. 1912. Churchill. 15s.

Fenwick, B. *Uterine Fibroids and other Pelvic Tumours.* 2nd edn. Demy 8vo. Pp. 166. 1913. Bale and Danielsson. 3s. 6d.

Giles, A. E. *Sterility in Women.* Demy 8vo. Pp. 243. 1919. Frowde and Hodder. 10s.

Lewers, A. H. N. *Cancer of the Uterus. A Clinical Monograph on its Diagnosis and Treatment.* 8vo. Pp. 341. 1902. Lewis. 10s. 6d.

McCann, F. J. *Cancer of the Womb. Its Symptoms, Diagnosis, Prognosis and Treatment.* Roy. 8vo. Pp. 172. 1907. Frowde and Hodder. 20s.

Wertheim, E., and Micholitsch, T. *The Technique of Vagino-Peritoneal Operations.* Translated by C. Lockyer. 8vo. Pp. 336. 1907. Macmillan. 25s.

e. Cancer of the Breast.

Creighton, C. *Cancer and other Tumours of the Breast.* Roy. 8vo. Pp. 296. 1902. Williams and Norgate. 12s. 6d.

Leaf, C. H. *Cancer of the Breast: Clinically Considered.* Demy 8vo. Pp. 164. 1912. Constable. 10s. 6d.
— *The Clinical Causes of Cancer of the Breast.* Demy 8vo. Pp. 64. 1904. Constable. 2s.

Lockwood, C. B. *Cancer of the Breast.* Demy 8vo. Pp. 237. 1913. Frowde and Hodder. 12s. 6d.

iii. OBSTETRICS.

a. General: Labour.

Ballantyne, J. W. *Essentials of Obstetrics.* Cr. 8vo. Pp. 251. 1904. W. Green. 5s.

Berkeley, C., and Bonney, V. *The Difficulties and Emergencies of Obstetric Practice.* 3rd edn. 8vo. Pp. 809. 1920. Churchill. 42s.

Edgar, J. C. *The Practice of Obstetrics.* 4th edn. Super Roy. 8vo. Pp. 1,062. 1913. Frowde and Hodder. 30s.

Greenwood, W. O. *Scopolamine-Morphine: Semi-Narcosis during Labour.* Cr. 8vo. Pp. 129. 1918. Frowde and Hodder. 6s.

Jardine, R. *Clinical Obstetrics.* 3rd edn. Roy. 8vo. Pp. 744. 1910. Kimpton. 21s.

Lea, A. W. W. *Puerperal Infection.* Cr. 4to. Pp. 400. 1910. Frowde and Hodder. 25s.

Moses, O. St. J. *Manual of Obstetrics. For the use of Students and Junior Practitioners.* 8vo. Pp. 536. 1920. Churchill. 21s.

Nall, S. *Aids to Obstetrics.* 8th edn. Revised by C. J. N. Longridge. Fcap. 8vo. Pp. 224. 1921. Baillière. 3s.

- Oldfield, C.** Herman's Difficult Labour: A Guide for Students and Practitioners. 6th edn. Cr. 8vo. Pp. 574. 1920. Cassell. 16s.
- Robinson, G. D.** An Atlas of Normal Labour, with an Appendix showing Sylvester's and Schultze's Methods of Artificial Respiration. Cr. 4to. Pp. 104 and Plates. 1921. Heine-mann. 25s.
- Swayne, J. G. and W. C.** Obstet-ric Aphorisms. For the use of Students commencing Midwifery Practice. 11th edn. Fcap. 8vo. Pp. 232. 1913. Churchill. 3s. 6d.
- Tweedy, E. H., and Wrench, G. T.** Practical Obstetrics. 4th edn. Demy 8vo. Pp. 540. 1919. Frowde and Hodder. 21s.
- b. Midwifery.**
- Andrews, H. R.** Midwifery for Nurses. 5th edn. Cr. 8vo. Pp. 310. 1920. Arnold. 6s.
- Barbour, A. H. F., and Watson, B. P.** Midwifery Primer. Cr. 8vo. Pp. 173. 1911. W. Green. 1s. 6d.
- Berkeley, C.** A Handbook of Mid-wifery: for Midwives, Maternity Nurses, and Obstetric Dressers. 5th edn. Fcap. 8vo. Pp. 550. 1920. Cassell. 7s. 6d.
- Andrews, H. R., and Fairbairn, J. S.** (edited by). Midwifery. By Ten Teachers. 2nd edn. 8vo. Pp. 784. 1920. Arnold. 30s.
- Bourne, A. W.** Synopsis of Mid-wifery. Cr. 8vo. Pp. 212. 1913. John Wright. 7s. 6d.
- Calder, A. B.** Lectures on Mid-wifery for Junior Students and Midwives. 2nd edn. Demy 8vo. Pp. 266. 1912. Baillière. 6s.
- Questions and Answers on Mid-wifery for Midwives.** 4th edn. Pp. 184. 1919. Baillière. 2s.
- Catechism Series.** Midwifery. 2nd edn. 2 Parts. Revised by R. M. Barclay. Livingstone. 1s. 9d. each.
- Cullingworth, C. J.** A Short Manual for Monthly Nurses. 6th edn. Fcap. 8vo. Pp. 136. 1907. Churchill. 1s. 6d.
- Donald, A.** An Introduction to the Study of Midwifery. For the use of Young Practitioners, Students and Midwives. 8th edn. Cr. 8vo. Pp. 192. 1920. Griffin. 5s.
- Eden, T. W.** A Manual of Mid-wifery. 5th edn. 8vo. Pp. 760. 1919. Churchill. 24s.
- Fairbairn, J. S.** A Text-book for Midwives. 2nd edn. Roy. 8vo. Pp. 328. 1918. Frowde and Hodder. 22s. 6d.
- Fothergill, W. E.** Manual of Mid-wifery. 4th edn. Cr. 8vo. Pp. 507. 1907. W. Green. 9s.
- Handbook to Midwives and Mater-nity Nurses.** 3rd edn. Cr. 8vo. Pp. 288. 1918. W. Green. 15s.
- Hart, D. B.** A Guide to Midwifery. Demy 8vo. Pp. 765. 1912. Heinemann. 12s. 6d.
- Jardine, R.** Practical Text-Book of Midwifery for Nurses. 7th edn. Cr. 8vo. Pp. 312. 1920. Kimp-ton. 7s. 6d.
- Jellett, H.** A Short Practice of Midwifery for Nurses. 5th edn. Cr. 8vo. Pp. 480. 1918. Churchill. 8s. 6d.
- A Short Practice of Midwifery.** 8th edn. Demy 8vo. Pp. 564. 1921. Churchill. 18s.
- and Madill, D. G.** Manual of Midwifery. For Students and Prac-titioners. 3rd edn. 8vo. Pp. 1,212. 1921. Baillière. 42s.
- Johnstone, R. W.** Text-book of Midwifery. For Students and Prac-titioners. 3rd edn. Cr. 8vo. Pp. 495. 1918. Black. 15s.
- Kerr, J. M.** Operative Midwifery. A Guide to the Difficulties and Complications of Midwifery Prac-tice. 3rd edn. Roy. 8vo. Pp. 742. 1916. Baillière. 30s.
- Longridge, C. J. N., and Banister, J. B.** A Manual for Midwives. 3rd edn. Cr. 8vo. Pp. 356. 1920. Churchill. 7s. 6d.

Gynaecology and Obstetrics.

- Marks, G. C.** *Maternity Nurses' Charts and Case Book.* 1908. Baillière. 1s.
- *Pupil Midwives' Register of Cases.* 1911. Baillière. 1s. 6d.
- *The Maternity Nurses' Daily Guide, or Pocket book of Reference.* 3rd edn. Pocket size. Pp. 148. 1918. Baillière. 2s.
- Norton, F.** *The Midwife's Companion.* Cr. 8vo. Pp. 108. 1914. Churchill. 1s.
- Skinner, M. L.** *Midwifery Made Easy.* Fcap. 8vo. Pp. 132. 1913. Baillière. 2s. 6d.
- Watson, J. K.** *A Complete Handbook of Midwifery for Midwives and Nurses.* 4th edn. Cr. 8vo. Pp. 384. N.D. Scientific Press. 10s. 6d.
- Wrench, G. T.*** *Practical Midwifery for Nurses and Midwives.* 8vo. Pp. 338. 1908. Frowde and Hodder. 7s. 6d.
- c. Popular.**
- Bull, J.** *Hints to Mothers on the Management of their health during the period of Pregnancy.* Fcap. 8vo. Pp. 354. 1909. Longmans. 1s. 9d.
- *The Maternal Management of Children in Health and Disease.* Fcap. 8vo. Pp. 366. 1905. Longmans. 2s. 6d.
- Campbell, H. Y.** *Practical Motherhood.* Demy 8vo. Pp. 555. 1910. Longmans. 8s.
- Chavassee, P. H.** *Advice to a Wife on the Management of her Own Health, and on the Treatment of some of the Complaints incidental to Pregnancy, Labour, and Suckling.* 17th. edn. revised by G. T. Wrench. Fcap. 8vo. Pp. 356. 1921. Churchill. 2s. 6d.
- *Advice to a Mother on the Management of her Children.* 18th edn. edited by T. D. Lister. Fcap. 8vo. Pp. 352. 1919. Churchill. 2s. 6d.
- Cunnington, C. W.** *Nursery Notes for Mothers.* Cr. 8vo. Pp. 150. 1913. Baillière. 2s. 6d.
- Hewer, J. L.** *Our Baby: for Mothers and Nurses.* 16th edn. Cr. 8vo. Pp. 167. 1920. John Wright. 2s. 6d.
- King, F. T.** *Feeding and Care of Baby.* New imp. Demy 8vo. Pp. 162. 1921. Macmillan. 2s.
- Westland, A.** *The Wife and Mother: A Medical Guide to the Care of Health and the Management of Children.* 7th edn. Cr. 8vo. 1920. Griffin. 5s.
- Wrench, G. T.** *The Healthy Marriage. A Medical and Psychological Guide for Wives.* 2nd edn. Cr. 8vo. Pp. 308. 1916. Churchill. 4s. 6d.

DISEASES' AND HYGIENE OF CHILDREN.

1. GENERAL; NUTRITION,
Etc.
- Ashby, H. T.** Infant Mortality. Demy 8vo. Pp. 240. 1915. Cambridge University Press. 12s. 6d.
- Brockbank, E. M.** Children—Their Care and Management. Cr. 8vo. Pp. 271. 1912. Frowde and Hodder. 3s. 6d.
- Cameron, H. C.** Diet and Disease in Infancy. Roy. 8vo. Pp. 216. 1915. Churchill. 10s. 6d.
- Cunning, Mrs. J., and Campbell, Miss A.** The Healthy Girl. Cr. 8vo. Pp. 201. 1916. Frowde and Hodder. 5s.
- Davis, F.** Childhood: its Nature, Nurture, Psychology and Education in Relation to Social Life. Roy. 8vo. Pp. 100. 1912. Bale and Danielsson. 7s. 6d.
- Feldman, W. M.** A Manual of Nursery Hygiene. 2nd edn. Cr. 8vo. Pp. 182. 1912. Baillière. 2s. 6d.
- Fordyce, A. D.** The Hygiene of Infancy and Childhood, and the Underlying Factors of Disease. Demy 8vo. Pp. 300. 1910. Livingstone. 6s.
- Diet in Infancy: the essential introduction to the study of disease in childhood. Cr. 8vo. Pp. 184. 1908. W. Green. 3s. 6d.
- Forsyth, D.** Children in Health and Disease. A Study in Child Life. Demy 8vo. Pp. 362. 1909. Murray. 12s.
- Fowler, J. S.** Infant Feeding. Cr. 8vo. Pp. 240. 1909. Frowde and Hodder. 6s.
- Gorst, Sir J. E.** The Children of the Nation: How their Health and Vigour should be promoted by the State. 2nd edn. Demy 8vo. Pp. 307. 1907. Methuen. 10s. 6d.
- Hellier, J. B.** Infancy and Infant-Rearing: A Guide to the Care of Children in Early Life. 2nd edn. Cr. 8vo. Pp. 178. 1908. Griffin. 3s. 6d.
- McCaw, J.** Aids to the Feeding and Hygiene of Infants and Children. Fcap. 8vo. Pp. 120. 1903. Baillière. 3s.
- Mackenzie, W. L.** The Health of the School Child. Cr. 8vo. Pp. 128. 1906. Methuen. 3s. 6d.
- MacMillan, J. C.** Infant Health. A Manual for District Visitors, Nurses, and Mothers. Fcap. 8vo. Pp. 136. 1915. Frowde and Hodder. 2s. 6d.
- Moll, A.** The Sexual Life of the Child. Translated by M. E. Paul. Demy 8vo. Allen and Unwin. 15s. (Sold only to the Medical, Legal and Scholastic Profession).
- Newman, Sir G.** Infant Mortality: A Social Problem. Demy 8vo. Pp. 364. 1906. Methuen. 10s. 6d.
- Pritchard, E.** The Infant: Nutrition and Management. Cr. 8vo. Pp. 265. 1914. Arnold. 3s. 6d.
- Steven, E. M.** Medical Supervision in Schools, being an account of the systems at work in Great Britain, Switzerland, Germany, Canada, and the United States. Small 4to. Pp. 278. 1910. Baillière. 5s.
- Vincent, R.** The Nutrition of the Infant. 4th edn. Demy 8vo. Pp. 362. 1913. Baillière. 10s. 6d.
- Wallace, J. S.** Child Welfare: and the Teachings of certain Dentists, School Medical Officers, Medical Officers of Health and other Medical Men. Demy 8vo. Pp. 122. 1919. Baillière. 5s.
- Young, H.** Medical Education and Infant Feeding. Cr. 8vo. Pp. 120. Routledge. 3s. 6d.

Diseases and Hygiene of Children.

II. DIAGNOSIS; DISEASES AND TREATMENT.

- Binet, A., and Simon, T.** *Mentally Defective Children.* Translated by W. B. Drummond. Cr. 8vo. Pp. 192. 1914. Arnold. 3s.
- Burnet, J.** *Manual of Diseases of Children.* 2nd edn. Cr. 8vo. Pp. 424. 1919. Livingstone. 8s. 6d.
- Cameron, H. C.** *The Nervous Child.* Cr. 8vo. Pp. 210. 1919. Frowde and Hodder. 6s.
- Elder, G., and Fowler, J. S.** *The Diseases of Children: A Clinical Handbook.* Pocket size. Pp. 404. 1899. Griffin. 10s. 6d.
- Fenwick, W. S.** *Disorders of Digestion in Infancy and Childhood.* Demy 8vo. Pp. 391. 1897. Lewis. 10s. 6d.
- Fordyce, A. D.** *Diseases of Children.* New edn. Cr. 8vo. Pp. 506. 1921. Black. 18s.
- Freyberger, L.** *The Pocket Formula for the Treatment of Diseases in Children, with an Appendix on Poisons, their Symptoms and Treatment.* 5th edition in preparation. Heinemann.
- Garrod, A. E., Batten, F. E., and Thursfield, J. H.** (edited by). *Diseases of Children.* Super Roy. 8vo. Pp. 1195. 1913. Arnold. 30s.
- Goodhart, Sir J. F., and Still, G. F.** *The Diseases of Children.* 11th edn. 8vo. Pp. 960. 1921. Churchill. 32s.
- Guthrie, L. G.** *Functional Nervous Disorders in Childhood.* Demy 8vo. Pp. 310. 1907. Frowde and Hodder. 8s. 6d.
- Hollander, B.** *Abnormal Children.* 2nd edn. Cr. 8vo. Pp. 232. 1916. Kegan Paul. 4s.
- Hutchison, R.** *Lectures on Diseases of Children.* 4th edn. Demy 8vo. Pp. 428. 1920. Arnold. 21s.
- Ireland, W. W.** *The Mental Affections of Children, Idiocy, Imbecility and Insanity.* 2nd edn. 8vo. Pp. 450. 1900. Churchill. 14s.
- Jansen, M.** *Feebleness of Growth and Congenital Dwarfism, with special reference to Dysostosis Cleido-Craniates.* Roy. 8vo. Pp. 94. 1921. Frowde and Hodder. 12s. 6d.
- Kelynack, T. N.** (edited by). *Defective Children.* Demy 8vo. Pp. 480. 1915. Bale and Danielsson. 7s. 6d.
- Kirmisson, E.** *A Handbook of the Surgery of Children.* Translated with notes by J. K. Murphy. 8vo. Pp. 834. 1910. Frowde and Hodder. 20s.
- Lapage, C. P.** *Feeble-mindedness in Children of School Age. With an Appendix on Treatment and Training, by M. Dendy.* Cr. 8vo. Pp. 324. 1920. Longmans. 10s. 6d.
- McCaw, J.** *Aids to the Diagnosis and Treatment of Diseases of Children.* 5th edn. Fcap. 8vo. Pp. 416. 1920. Bailliére. 6s.
- *Diseases of Children. A Manual for Students and Practitioners.* Demy 8vo. Pp. 536. 1914. Bailliére. 12s.
- Macdonald, D. M.** *Practical Prescribing and Treatment in the Diseases of Infants and Children.* 16mo. Pp. 199. 1915. Frowde and Hodder. 6s.
- Miller, R.** *Medical Diseases of Children: for General Practitioners and Senior Students.* Demy 8vo. Pp. 541. 1911. John Wright. 12s. 6d.
- Römer, P. H.** *Epidemic Infantile Paralysis (Heine-Medin Disease).* Translated by H. R. Prentice. Roy. 8vo. Pp. 220. 1913. Bale and Danielsson. 7s. 6d.
- Shuttleworth, G. E., and Potts, W. A.** *Mentally Deficient Children: their Treatment and Training.* 5th edn. In the Press. Lewis.
- Smith, E.** *Diseases of Children.* 3rd edn. Roy. 8vo. Pp. 850. 1909. W. Green. 10s. 6d.
- Still, G. F.** *Common Disorders and Diseases of Childhood.* 3rd edn. Demy 8vo. Pp. 861. 1918. Frowde and Hodder. 20s.

Diseases and Hygiene of Children.

- Sutherland, G. A.** Treatment of Diseases in Children. 2nd edn. Demy 8vo. Pp. 409. 1912. Frowde and Hodder. 12s. 6d.
- Taylor, J.** Paralysis and other Diseases of the Nervous System in Childhood and Early Life. 8vo. Pp. 520. 1905. Churchill. 12s. 6d.
- Thomson, J.** The Clinical Study and Treatment of Sick Children. 3rd edn. Med. 8vo. Pp. 912. 1921. Oliver and Boyd. 32s. 6d.
- Vulpius, O.** The Treatment of Infantile Paralysis. Translated by A. H. Todd. Roy. 8vo. Pp. 328. 1912. Baillière. 10s. 6d.
- Wallace, J. S.** Occasional Papers on the Prevention of some Common Diseases in Childhood. Demy 8vo. Pp. 112. 1912. Baillière. 4s. 6d.
- Whipham, T. R. C.** The Medical Diseases of Children. Demy 8vo. Pp. 428. 1912. University of London Press. 10s. 6d.
- Young, M.** The Mentally Defective Child. Cr. 8vo. Pp. 151. 1916. Lewis. 4s.

DENTISTRY.

i. GENERAL.

Dentists' Register, The. 1921.
Roy. 8vo. Pp. 163. Apl. 1921.
Consable. 8s. 4d.

Pedley, R. D., and Harrison, F.
Our Teeth: How Built up, How
Destroyed, How Preserved. Demy
8vo. Pp. 97. 1908. Blackie. 5s.

Sturridge, E. Periodontal Disease
and its Treatment by Ionic Medica-
tion. Demy 8vo. Pp. 139. 1920.
Kimpton. 10s. 6d.

Underwood, A. B. G. Synopsis of
Dentistry. Cr. 8vo. Pp. 216.
1920. Churchill. 9s. 6d.

Underwood A. S. Studies in Com-
parative Odontology. Cr. 8vo.
Pp. 160. 1903. Baillière. 5s.

ii. ANATOMY AND PHYSIOLOGY.

Gabell, D. Aids to Dental Anatomy
and Physiology. 3rd edn. Fcap.
8vo. Pp. 144. 1921. Baillière.
3s. 6d.

Hopewell-Smith, A. An Introduc-
tion to Dental Anatomy and Phy-
siology, Descriptive and Applied.
Roy. 4to. Pp. 392. 1918.
Churchill. 18s.

—Dental Microscopy. 3rd edn.
Roy. 8vo. Pp. 240. 1914. Bale
and Danielsson. 15s.

Mummery, J. H. The Microscopic
Anatomy of the Teeth. Demy 8vo.
Pp. 389. 1919. Frowde and
Hodder. 25s.

Tomes, C. S. A Manual of Dental
Anatomy, Human and compara-
tive. Edited by H. W. M. Tims
and A. Hopewell-Smith. 8vo.
Pp. 624. 1914. Churchill. 18s.

Widdowson, T. W. Notes on Dental
Anatomy and Dental Histology,
Human and Comparative. 3rd
edn. Demy 8vo. Pp. 197. 1915.
Bale and Danielsson. 7s. 6d.

iii. MEDICINE AND DISEASES.

Crow, D. A. Pyorrhœa Alveolaris
in its Clinical Aspect. Cr. 8vo.
Pp. 128. 1921. Baillière. 6s.

Pickerill, H. P. The Prevention of
Dental Caries and Oral Sepsis.
2nd edn. Demy 8vo. Pp. 390.
1914. Baillière. 14s.

Wallace, J. S. The Cause and Pre-
vention of Decay in Teeth. An
Investigation into the Causes of the
Prevalence of Dental Caries, with
suggestions on its Prevention. 2nd
edn. 8vo. Pp. 108. 1902.
Churchill. 5s.

—Supplementary Essays on the
Cause and Prevention of Dental
Caries. Cr. 8vo. Pp. 89. 1906.
Baillière. 3s. 6d.

Wallis, C. E. An Atlas of Dental
Extractions, with Notes on the
Causes and Relief of Dental Pain.
2nd edn. Roy. 8vo. Pp. 26 and 11
Plates. 1919. Churchill. 6s.

Witkowski. The Tightening of Loose
Teeth, some Technical Innovations.
Translated from the German by E.
Neumann and W. M. Gabriel.
Cr. 8vo. Pp. 86. 1912. Baillière.
5s.

iv. OPERATIVE DENTISTRY.

Alderson, W. E. Dental Anæsthe-
tics: A Text-book for Students and
Practitioners, with a Contribution
on Analgesia by J. Bolam. 2nd
edn. Fcap. 8vo. Pp. 106. 1912.
John Wright. 8s.

- Bennett, N. G.** (edited by). *The Science and Practice of Dental Surgery*. Cr. 4to. Pp. 797. 1914. Frowde and Hodder. 42s.
- Coleman, F.** *Extraction of Teeth*. 2nd edn. Cr. 8vo. Pp. 185. 1914. Lewis. 5s.
- and Hilliard, H.** *Anæsthetics in Dental Surgery*. Cr. 8vo. Pp. 308. 1912. Lewis. 7s. 6d.
- Colyer, Sir J. F.** *Dental Surgery and Pathology*. 4th edn. 8vo. Pp. 913. 1919. Longmans. 32s.
- and S.** *Dental Disease in its Relation to General Medicine*. Cr. 8vo. Pp. 198. 1911. Longmans. 6s.
- Gibbs, J. H.** *The Extraction of Teeth*. Demy 8vo. Pp. 16". 1912. Livingstone. 8s. 6d.
- Luke, T. D., and Ross, J. S.** *Anæsthesia in Dental Surgery*. 4th edn. Cr. 8vo. Pp. 264. 1919. Heinemann. 8s. 6d.
- Mills, G. P., and Humphreys, H.** *Surgery for Dental Students*. 2nd edn. Demy 8vo. Pp. 352. 1919. Arnold. 14s.
- Sewill, H.** *Dental Surgery, including Special Anatomy and Pathology. A Manual for Students and Practitioners*. 4th edn. Edited by W. J. England and J. S. Sewill. Large Cr. 8vo. Pp. 634. 1901. Baillière. 12s.
- Tomes, Sir J.** *A System of Dental Surgery*. Revised and Enlarged by C. S. Tomes and W. S. Nowell. Post 8vo. Pp. 790. 1906. Churchill. 15s.
- Underwood, A. S., and B.** *A Handbook on Surgery; intended for Dental and Junior Medical Students*. Cr. 8vo. Pp. 252. 1912. Bale and Danielsson. 8s. 6d.
- Underwood, A. S., and Gabell, D.** *Aids to Dental Surgery*. 3rd edn. in the Press. Baillière.
- Widdowson, T. W.** *Notes on Dental Surgery and Pathology*. Demy 8vo. Pp. 357. 1915. Bale and Danielsson. 10s. 6d.
- v. MECHANICAL AND METALLURGY.**
- Buxton, J. L. D.** *Handbook of Mechanical Dentistry*. Demy 8vo. Pp. 269. 1920. Churchill. 16s.
- Fenchel, A.** *Metallurgy, with Special consideration of Dental Metallurgy*. Translated by H. J. Morris. Demy 8vo. Pp. 299. 1911. Bale and Danielsson. 7s. 6d.
- Griffiths, A. B.** *Dental Metallurgy: a Manual for Students and Dentists*. Demy 8vo. Pp. 200. 1908. Scott, Greenwood. 8s. 6d.
- Hepburn, W. B.** *Notes on Dental Metallurgy. For the Use of Dental Students and Practitioners*. 2nd edn. Cr. 8vo. Pp. 262. 1915. Baillière. 7s. 6d.
- Hunter, C.** *Mechanical Dentistry. A Practical Treatise on the Construction of the various kinds of Artificial Dentures*. 7th edn. Cr. 8vo. Pp. 280. 1920. Crosby Lockwood. 5s.
- Mamlock, H. J.** *Porcelain Filling of Teeth (Inlays)*. Translated from the German by W. M. Gabriel. Demy 8vo. Pp. 88. 1913. Baillière. 5s.
- Smith, E. A.** *A Manual of Dental Metallurgy*. 4th edn. Cr. 8vo. Pp. 301. 1920. Churchill. 12s. 6d.
- vi. MATERIA MEDICA AND THERAPEUTICS.**
- Barritt, W., and A.** *The Simplex Handbook of Dental Materia Medica and Therapeutics*. Oblong 8vo. Pp. 352. 1914. Kimpton. 7s. 6d.
- Glassington, C. W.** *Dental Materia Medica, Pharmacology and Therapeutics*. 2nd edn. Cr. 8vo. Pp. 300. 1911. Churchill. 7s. 6d.
- Sturridge, E.** *Dental Electro-Therapeutics*. 2nd edn. Demy 8vo. Pp. 320. 1918. Kimpton. 16s.

DERMATOLOGY (SKIN DISEASES).

- Adamson, H. G.** Modern Views upon the Significance of Skin Eruption. Demy 8vo. Pp. 103. 1912. Bale & Danielsson. 3s. 6d.
- Davis, H.** Skin Diseases in General Practice. Their Recognition and Treatment. 2nd edn. Demy 8vo. Pp. 352. 1921. Frowde & Hodder. 25s.
- Evans, W.** The Diseases of the Skin. 8vo. Pp. 392. 1912. University of London Press. 10s. 6d.
- Gardiner, F.** A Handbook of Skin Diseases. Cr. 8vo. Pp. 180. 1919. Livingstone. 6s.
- Jamieson, W. A.** Diseases of the Skin. 4th edn. Demy 8vo. Pp. 680. 1894. Frowde & Hodder. 21s.
- Care of the Skin in Health. Cr. 8vo. Pp. 190. 1912. Frowde & Hodder. 2s. 6d.
- Low, R. C.** Carbonic-Acid Snow as a Therapeutic Agent in the Treatment of Diseases of the Skin. Cr. 8vo. Pp. 129. 1911. W. Green. 5s.
- MacLeod, J. M. H.** Diseases of the Skin. A Text-book for Students and Practitioners. Roy. 8vo. Pp. 1327. 1920. Lewis. 70s.
- Practical Handbook of the Pathology of the Skin. An Introduction to the Histology, Pathology, and Bacteriology of the Skin, with Special Reference to Technique. Demy 8vo. Pp. 432. 1903. Lewis. 15s.
- Morris, Sir M.** Diseases of the Skin: An Outline of the Principles and Practice of Dermatology. 6th edn. Cr. 8vo. Pp. 770. 1917. Cassell. 12s. 6d.
- Paul, C. N.** The Influence of Sunlight in the Production of Cancer of the Skin. Cr. 4to. Pp. 57. 1918. Lewis. 10s. 6d.
- Radcliffe-Crocker, H.** Diseases of the Skin: their Description, Pathology, Diagnosis, and Treatment; with Special Reference to the Skin Eruption of Children. 3rd edn. 2 Vols. Med. 8vo. Pp. 1421. 1905. Lewis. 30s.
- Schultz, F.** The X-Ray Treatment of Skin Diseases. Translated by J. Burnet. Roy. 8vo. Pp. 178. 1912. Heinemann. 12s. 6d.
- Sequeira, J. H.** Diseases of the Skin. 3rd edn. Roy. 8vo. Pp. 658. 1919. Churchill. 38s.
- Sibley, W. K.** The Treatment of Diseases of the Skin. New edition in the Press. Arnold.
- Startin, J.** (edited by). Pharmacopœia of Diseases of the Skin. 6th edn. Pp. 64. 1907. John Wright. 2s. 6d.
- Walker, N.** An Introduction to Dermatology. 6th edn. 8vo. Pp. 381. 1919. W. Green. 20s.
- Walsh, D.** Diseases of the Skin. A Handbook for Students and Practitioners. Demy 8vo. Pp. 316. 1913. Baillière. 7s. 6d.
- The Hair and its Diseases; including Ringworm, Greyness, and Baldness. 2nd edn. Pp. 102. 1908. Baillière. 3s. 6d.
- White, R. P.** Occupational Affections of the Skin. A brief account of the Trade Processes and Agents which give rise to them. 2nd edn. Demy 8vo. Pp. 374. 1920. Lewis. 25s.
- Whitfield, A.** A Handbook of Skin Diseases and their Treatment. 2nd edn. 8vo. Pp. 320. 1921. Arnold. 18s.

THERAPEUTICS.

1. GENERAL TREATISES.

- Brown, W. L., and Murphy, J. K.** (edited by). *The Practitioner's Encyclopædia of Medical Treatment, Methods of Treatment and Agents in Treatment.* Cr. 4to. Pp. 897. 1915. Frowde & Hodder. 35s.
- Bruce, J. M., and Dilling, W. J.** *Materia Medica and Therapeutics. An Introduction to the Rational Treatment of Disease.* 11th edn. Fcap. 8vo. Pp. 676. 1918. Cassell. 9s.
- Calwell, W.** *A Text-book of Medical Treatment.* Roy. 8vo. Pp. 634. 1910. Arnold. 16s.
- Carrel, A., and Dehelly, G.** *The Treatment of Infected Wounds.* Translated by H. Child. 2nd edn. Cr. 8vo. Pp. 278. 1918. Baillière. 6s.
- Farquharson, R.** *A Guide to Therapeutics.* 5th edn. Cr. 8vo. Pp. 417. 1891. Murray. 7s. 6d.
- Fothergill, J. M., and Murrell, W.** *The Practitioner's Handbook of Treatment: or the Principles of Therapeutics.* 4th edn. 8vo. Pp. 708. 1897. Macmillan. 15s.
- Goldsbrough, G. F.** *First Principles in Therapeutics.* Med. 8vo. Pp. 144. 1916. Bale & Danielsson. 7s. 6d.
- Hewlett, R. T., and Nankivell, A. T.** *The Principles of Preventive Medicine.* Large Cr. 8vo. Pp. 544. 1921. Churchill. 21s.
- Hutchison, R., and Sherren, J.** (edited by). *An Index of Treatment. A Complete Guide to Treatment in a form convenient for Reference.* By various contributors. 7th edn. Large 8vo. Pp. 1142. 1919. John Wright. 30s.
- Keith, Sir A.** *Menders of the Maimed. The Anatomical and Physiological Principles underlying the Treatment of Injuries to Muscles, Nerves, Bones, and Joints.* Demy 8vo. Pp. 336. 1919. Frowde & Hodder. 16s.
- Latham, A., and English, Sir T. C.** (edited by). *A System of Treatment.* By Many Writers. 8vo. 1912. Vols. 1 & 2 General Medicine and Surgery. Vol. 3. Special Subjects. Vol. 4. Obstetrics and Gynæcology. Churchill. 30s. each.
- Leftwich, R. W.** *A Pocket-Book of Treatment.* 3rd edn. Small Cr. 8vo. Pp. 343. 1916. Arnold. 7s. 6d.
- *Aids to Rational Therapeutics, with U.S.A. Pharmacopœia equivalents.* Fcap. 8vo. Pp. 244. 1918. Baillière. 4s. 6d.
- Swietochowski, G. De.** *Mechano-Therapeutics in General Practice.* Cr. 8vo. Pp. 155. 1914. Lewis. 4s. 6d.
- Tirard, N. I. C.** *Text-book of Medical Treatment (Diseases and Symptoms).* 8vo. Pp. 700. 1900. Churchill. 15s.
- Whitla, Sir W.** *A Dictionary of Treatment, including Medical and Surgical Therapeutics.* 6th edn. Demy 8vo. Pp. 1093. 1920. Baillière. 30s.
- Yeo, I. B., Crawford, R., and Buzzard, E. F.** *A Manual of Medical Treatment, or Clinical Therapeutics.* 5th edn. 2 Vols. Cr. 8vo. Pp. 1680. 1918. Cassell. 30s.

ii. PRESCRIBING.

Burnet, J. The Pocket Prescriber. 5th edn. Fcap. 16mo. Pp. 98. 1919. Black. 2s.

— Hints on Prescription Writing. 4th edn. 18mo. Pp. 32. 1920. Wm. Bryce. 2s.

Colbeck, E. H., and Chaplin, A. The Science and Art of Prescribing. 2nd edn. Fcap. 8vo. Pp. 210. 1919. Kimpton. 5s.

Griffiths, W. H. Lessons on Prescriptions and the Art of Prescribing. Pott. 8vo. Pp. 158. 1903. Macmillan. 3s. 6d.

Hogarth, C. W., and others (compiled by). The Prescriber's Pharmacopœia for General Use. 2nd edn. Fcap. 8vo. Pp. 30. 1913. Frowde & Hoëder. 1s.

Lucas, E. W. The Book of Prescriptions, with Notes on the Pharmacology and Therapeutics of the more important Drugs and an Index of Diseases and Remedies. 10th edn. Fcap. 8vo. Pp. 392. 1915. Churchill. 7s. 6d.

MacDonald, D. M. The Student's Pocket Prescriber and Guide to Prescription Writing. 6th edn. 32mo. Pp. 200. 1919. Livingstone. 2s. 6d.

— The Practitioner's Practical Prescriber. 16mo. Pp. 198. 1913. Frowde & Hodder. 6s.

Marshall, C. A Manual of Prescribing for Students and Practitioners of Medicine. Fcap. 8vo. Pp. 382. 1908. Churchill. 6s. 6d.

Prichard, A. H. Practical Prescribing; with Clinical Notes. Cr. 8vo. Pp. 315. 1913. Frowde & Hodder. 7s. 6d.

iii. DIETETICS.

Burnet, Sir R. W. Foods and Dietaries: A Manual of Clinical Dietetics. 5th edn. Large Cr. 8vo. Pp. 216. 1917. Griffin. 4s.

Cambridge, P. J. Diabetic Dieting and Cookery. Demy 8vo. Pp. 280. 1920. University of London Press. 10s. 6d.

Curgenvén, J. S. The Child's Diet. 2nd edn. Cr. 8vo. Pp. 123. 1914. Lewis. 3s.

Fothergill, J. M. Food for the Invalid, the Convalescent, the Dyspeptic, and the Gouty. 2nd edn. Cr. 8vo. Pp. 178. 1894. Macmillan. 3s. 6d.

Gillespie, A. L. The Natural History of Digestion. Cr. 8vo. Scott Pub. Co. 7s. 6d.

Goodfellow, J. The Dietetic Value of Bread. Cr. 8vo. Pp. 348. 1892. Macmillan. 6s.

Hutchison, R. Food and the Principles of Dietetics. 4th edn. Demy 8vo. Pp. 637. 1916. Arnold. 18s.

McCay, D. The Protein Element in Nutrition. Demy 8vo. Pp. 216. 1912. Arnold. 10s. 6d.

McKillop, M. Handbook of Food Values. Cr. 8vo. Pp. 142. 1916. Routledge. 1s. 6d.

Pavlov, I. P. The Work of the Digestive Glands. Translated by Sir W. H. Thompson. 2nd edn. 8vo. Pp. 280. 1910. Griffin. 12s. 6d.

Poole, W. H., and Mrs. Cookery for the Diabetic. Cr. 8vo. Pp. 72. 1915. Longmans. 2s. 6d.

Sohn, C. E. Nutrition. A Guide to Food and Dieting. Cr. 8vo. Pp. 272. 1914. Kimpton. 3s. 6d.

Starling, E. H. Recent Advances in the Physiology of Digestion. 2nd edn. Demy 8vo. Pp. 166. 1911. Constable. 6s.

Stewart, D. The Essentials of Food. Cr. 8vo. Pp. 190. 1911. Bale & Danielsson. 3s. 6d.

Sutherland, G. A. (edited by). A System of Diet and Dietetics. 8vo. Pp. 905. 1908. Frowde & Hodder. 30s.

Tibbles, W. Dietetics, or Food in Health and Disease. Demy 8vo. Pp. 638. 1914. Baillière. 14s.

Wallace, J. S. The Role of Modern Dietetics in the Causation of Disease. Cr. 8vo. Pp. 94. 1905. Baillière. 4s. 6d.

iv. MINERAL WATERS.

Gotar, C. The Mineral Waters of Vichy. For the Use of General Practitioners. Post 8vo. Pp. 216. 1918. Lewis. 4s.

Yeo, I. B. Therapeutics of Mineral Springs and Climates. Cr. 8vo. Pp. 760. 1904. Cassell. 12s. 6d.

v. MASSAGE AND MOVEMENT CURES.

Camus, J., and others. Physical and Occupational Re-education of the Maimed. Translated by W. F. Castle. Cr. 8vo. Pp. 208. 1918. Baillière. 5s.

Copestake, B. M. G. The Theory and Practice of Massage. 3rd edn. Demy 8vo. Pp. 286. 1920. Lewis. 12s. 6d.

Deane, H. E. Gymnastic Treatment for Joint and Muscle Disabilities. Cr. 8vo. Pp. 146. 1918. Frowde & Hodder. 5s.

Despard, L. L. Text Book of Massage and Remedial Gymnastics. 2nd edn. 3rd imp. Roy. 8vo. Pp. 436. 1920. Frowde & Hodder. 22s. 6d.

Handbook of Massage for Beginners. 8vo. Pp. 264. 1915. Frowde & Hodder. 7s. 6d.

Dowse, T. S. Lectures on Massage and Electricity in the Treatment of Disease. 6th edn. Demy 8vo. Pp. 447. 1906. John Wright. 9s. 6d.

— Massage Primer for Learners. 8th edn. Pp. 151. 1916. John Wright. 2s.

Eccles, A. S. The Practice of Massage: its Physiological Effects and Therapeutic Uses. 2nd edn. Cr. 8vo. Pp. 374. 1898. Baillière. 7s. 6d.

Ellison, M. A. A Manual for Students of Massage. 3rd edn. Demy 8vo. Pp. 204. 1909. Baillière. 6s.

Fox, R. F., McKenzie, R. T., Hernaman-Johnson, F., and Mennell, J. B. Physical Remedies for Disabled Soldiers. Demy 8vo. Pp. 291. 1917. Baillière. 7s. 6d.

Frenkel, H. S. Treatment of Tabetic-Ataxia by the Aid of Gymnastic Exercise. Translated from the German by L. Freyberger. 2nd edn. Demy 8vo. 1917. Heine-mann. 12s. 6d.

Hood, W. P. The Immediate Treatment of Injuries by Friction and Movement. Cr. 8vo. Pp. 188. 1902. Macmillan. 4s. 6d.

Kleen, E. A. G. Massage and Medical Gymnastics: with Contributions by J. Arvedson, P. Haglund, E. Zander. Translated by M. L. Dobbie. 2nd edn. Roy. 8vo. Pp. 632. 1920. Churchill. 32s.

Mennell, J. B. Massage: Its Principles and Practice. 2nd edn. Demy 8vo. Pp. 552. 1920. Churchill. 21s.

Palmer, M. D. Lessons on Massage. 5th edn. Demy 8vo. Pp. 350. 1918. Baillière. 12s.

Timberg, R. Home Exercises for Spinal Curvatures. 2nd edn. Cr. 8vo. Pp. 80. 1920. Heinemann. 6s.

Waddington, V. What Every Massagee Should Know: Comfortable Grasps for Joint Movements. Demy 16mo. Pp. 121. 1917. Methuen. 3s. 6d.

vi. SERUM THERAPY AND IMMUNISATION.

Bayliss, W. M. Intravenous Injection in Wound Shock. 8vo. Pp. 184. 1918. Longmans. 9s.

Bosanquet, W. C., and Eyre, J. W. H. Serums, Vaccines, and Toxins in Treatment and Diagnosis. 3rd edn. Cr. 8vo. Pp. 456. 1916. Cassell. 9s.

Calmette, A. Venoms, Venomous Animals and Antivenomous Serum Therapeutics. Translated by E. E. Austen. Roy. 8vo. Pp. 419. 1908. Bale & Danielsson. 15s.

Crofton, W. M. Therapeutic Immunisation: Theory and Practice. Cr. 8vo. Pp. 232. 1918. Churchill. 7s. 6d.

, Therapeutics.

Digby, K. H. Immunity in Health. The Functions of the Tonsils and other Subepithelial Lymphatic Glands in the Bodily Economy. Demy 8vo. Pp. 130. 1919. Frowde & Hodder. 8s. 6d.

Emery, W. D'E. Immunity and Specific Therapy. An Account of the Main Phenomena of Infection and Immunity, and their Application in the Prevention, Diagnosis, and Treatment of Disease. 2nd edn. in preparation. Lewis.

Hewlett, R. T. Serum and Vaccine Therapy, Bacterial Therapeutics and Prophylaxis, Bacterial Diagnostic Agents. 2nd edn. Cr. 8vo. Pp. 416. 1910. Churchill. 8s. 6d.

Jones, D. W. C. An Introduction to Therapeutic Inoculation. Cr. 8vo. Pp. 188. 1911. Macmillan. 3s. 6d.

Metchnikoff, E. Immunity in Infective Diseases. Translated by F. G. Binnie. Roy. 8vo. Pp. 608. 1907. Cambridge University Press. 21s.

Muir, R. Studies on Immunity. Demy 8vo. Pp. 227. 1909. Frowde & Hodder. 8s. 6d.

Paton, D. M. New Serum Therapy. Cr. 8vo. Pp. 320. 1906. Baillière. 6s.

Shera, A. G. Vaccines and Sera. Their Clinical Value in Military and Civilian Practice. Fcap. 8vo. Pp. 247. 1918. Frowde & Hodder. 7s. 6d.

Sternberg, G. M. Infection and Immunity. Large Cr. 8vo. Pp. 293. 1905. Murray. 7s. 6d.

Wright, Sir A. E. On Pharmacotherapy and Preventive Inoculation. Demy 8vo. Pp. 136. 1905. Constable. 4s. 6d.

Wolff-Eisner, A. Clinical Immunity and Sero-Diagnosis. Translated by R. W. Matson. Demy 8vo. Pp. 198. 1911. Baillière. 7s. 6d.

vii. VACCINATION; SALVARSAN.

Allen, R. W. Vaccine Therapy: Its Theory and Practice, 4th edn. Demy 8vo. Pp. 454. 1912. Lewis. 10s. 6d.

— Practical Vaccine Treatment. For the General Practitioner. Cr. 8vo. Pp. 320. 1919. Lewis. 9s.

Copeman, S. M. Vaccination, with special reference to its Natural History and Pathology. Cr. 8vo. Pp. 268. 1899. Macmillan. 6s.

McDonagh, J. E. R. Salvarsan in Syphilis and Allied Diseases. Demy 8vo. Pp. 170. 1912. Frowde & Hodder. 8s. 6d.

Martindale, W. H., and Westcott, W. W. "Salvarsan" or "606" (Dioxy-Diamino-Arsenobenzol); its Chemistry, Pharmacy, and Therapeutics. Demy 8vo. Pp. 92. 1911. Lewis. 5s.

Millard, C. K. The Vaccination Question in the Light of Modern Experience. An Appeal for Reconsideration. Demy 8vo. Pp. 261. 1914. Lewis. 7s. 6d.

Stopford-Taylor, G., and MacKenna, R. W. Treatment of Syphilis by Salvarsan. Demy 8vo. Pp. 96. 1914. Heinemann. 5s.

viii. TUBERCULIN.

Armstrong, W. E. M. I. K. Therapy, with Special Reference to Tuberculosis. Demy 8vo. Pp. 91. 1914. Lewis. 5s.

Bandelier, B., and Roepke, Dr. Tuberculin in Diagnosis and Treatment. Translated by W. B. Christopherson. 2nd edn. Roy. 8vo. Pp. 323. 1913. Bale & Danielsson. 15s.

Bardswell, N. D. Preliminary Report on the Treatment of Pulmonary Tuberculosis with Tuberculin. Demy 8vo. Pp. 163. 1914. Lewis. 6s.

Therapeutics.

Barr, W. I. K. *Therapy (Immun-körper—Immune Substances) in Pulmonary Tuberculosis.* Demy 8vo. Pp. 92. 1916. John Wright. 3s. 6d.

Clark, H. *Dispensary Treatment of Pulmonary Tuberculosis.* Roy. 8vo. Pp. 288. 1915. Baillière. 15s.

Cochrane, A. W. R., and Sprawson, C. A. *A Guide to the Use of Tuberculin.* 2nd edn. Cr. 8vo. Pp. 189. 1915. Bale & Danielsson. 7s. 6d.

Riviere, C., and Egmont, E. *Tuberculin Treatment.* 2nd edn. Cr. 8vo. Pp. 263. 1913. Frowde & Hodder. 6s. 6d.

Robertson, N. *The Treatment of Tuberculosis by Means of Spengler's Immune Bodies (I. K. Therapy).* Cr. 8vo. Pp. 165. 1917. Baillière. 5s.

Robin, A. *Treatment of Tuberculosis. Ordinary Therapeutics of Medical Men.* Translated by L. Blanc, and H. de Méric. 8vo. Pp. 624. 1913. Churchill. 21s.

Sahli, H. *Tuberculin Treatment, including a Discussion of the Nature and Action of Tuberculin and of Immunity to Tuberculosis.* Translated by W. B. Christopherson. Demy 8vo. Pp. 206. 1912. Bale & Danielsson. 7s. 6d.

ix. CLIMATOTHERAPY, ETC.

Braun, J. *The Curative Effects of Baths and Waters.* Abridged Translation from the 3rd German edn., with Notes by Sir H. Weber. Demy 8vo. Pp. 658. 1875. Murray. 18s.

Fox, R. F. *The Principles and Practice of Medical Hydrology.* 8vo. Pp. 312. 1913. University of London Press. 6s.

Luke, T. D., and Forbes, N. H. *Natural Therapy. A Manual of Physiotherapeutics and Climatology.* Demy 8vo. Pp. 316. 1913. John Wright. 5s.

Macfie, R. C. *Air and Health.* 2nd edn. Demy 8vo. Pp. 353. 1909. Methuen. 10s. 6d.

Waller, H. E. *Theory and Practice of Thyroid Therapy.* For General Practitioners. Demy 8vo. Pp. 166. 1911. Bale & Danielsson. 5s.

Weber, Sir H., and Parkes, F. *Climatotherapy and Balneotherapy. The Climates and Mineral Water Health Resorts (Spas) of Europe.* Roy. 8vo. Pp. 853. 1907. Murray. 15s.

x. X-RAYS: RADIUM: THERMOTHERAPY.

Dominici, M., and Warden, A. A. *The Technique and Results of Radium-Therapy in Malignant Disease.* 1912. Churchill. 2s.

Finzi, N. S. *Radium Therapeutics.* Demy 8vo. Pp. 120. 1913. Frowde & Hodder. 7s. 6d.

Green, A. A. R. *An X-Ray Atlas of the Skull.* 4to. Pp. 38 and 11 Plates. 1918. Longmans. 10s. 6d.

Lyth, E. R. *Studies on the Influence of Thermal Environment on the Circulation and the Body-heat.* Demy 8vo. Pp. 80. 1913. Bale & Danielsson. 2s. 6d.

Taylor, G. G. S. *Clinical Records of "Light" and "X-Ray" Therapy.* Roy. 8vo. Pp. 33. 1904. Bale & Danielsson. 5s.

Walsh, D. *The Röntgen Rays in Medical Work. With Section on Apparatus by L. Jones.* 4th edn. Demy 8vo. Pp. 452. 1907. Baillière. 15s.

Walsham, H., and Orton, G. H. *The Röntgen Rays in the Diagnosis of Diseases of the Chest.* Demy 8vo. Pp. 80. 1906. Lewis. 6s.

Wickham, L. *Radium Therapy.* Translated by S. E. Dore. Roy. 8vo. Pp. 326. 1910. Cassell. 15s.

xi. ELECTROTHERAPY, ETC.

Crook, H. E. *High Frequency Currents. Their Production, Physical Properties, Physiological Effects and Therapeutical Uses.* 2nd edn. Demy 8vo. Pp. 244. 1909. Baillière. 8s. 6d.

- Cumberbatch, E. P.** *Essentials of Medical Electricity.* 5th edn. Cr. 8vo. Pp. 404. 1921. Kimpton. 10s. 6d.
- *Diathermy, its Production and Uses in Medicine and Surgery.* Demy 8vo. Pp. 203. 1921. Heinemann. 21s.
- Friel, A. R.** *Electric Ionization: A Practical Introduction to its Use in Medicine and Surgery.* Demy 8vo. Pp. 78. 1920. John Wright. 8s.
- Garton, W.** *Electro-Therapeutics for Military Hospitals.* Cr. 8vo. Pp. 56. 1917. Lewis. 2s. 6d.
- Harris, J. D.** *Lectures on Medical Electricity to Nurses.* Cr. 8vo. Pp. 96. 1913. Lewis. 3s.
- Harris, W.** *Electrical Treatment.* 3rd edn. Cr. 8vo. Pp. 365. 1919. Cassell. 10s. 6d.
- Humphris, F. H.** *Electro-Therapeutics for Practitioners.* 2nd edn. Demy 8vo. Pp. 310. 1921. Frowde & Hodder. 21s.
- Jones, H. L.** *Medical Electricity. A Practical Handbook for Students and Practitioners.* 8th edn. Revised by L. W. Bathurst. Demy 8vo. Pp. 590. 1920. Lewis. 22s. 6d.
- Magill, E. M.** *Notes on Galvanism and Faradism.* 2nd edn. Cr. 8vo. Pp. 240. 1919. Lewis. 6s.
- Parsons, J. J.** *The Healing of Rodent Cancer by Electricity.* Cr. 8vo. Pp. 90. 1906. Bale & Danielsson. 5s.
- Redding, J. M.** *Aids to Electro-Therapeutics.* Pott 8vo. Pp. 204. 1920. Baillière. 5s.
- Saberton, C.** *Diathermy in Medical and Surgical Practice.* Cr. 8vo. Pp. 150. 1920. Cassell. 7s. 6d.
- Turner, D.** *A Manual of Practical Medical Electricity, the Röntgen Rays, Finsen Light, Radium and its Radiations, and High Frequency Currents.* 4th edn. Demy 8vo. Pp. 458. 1905. Baillière. 10s. 6d.
- Webb, J. C.** *Electro-Therapy: Its Rationale and Indications.* Cr. 8vo. Pp. 90. 1920. Churchill. 5s.
- xii. PSYCHO-THERAPEUTICS; HYPNOTISM.**
- Brown, H.** *Advanced Suggestion (Neuroinduction).* 2nd edn. Cr. 8vo. Pp. 414. 1921. Baillière. 10s. 6d.
- Hilger, W.** *Hypnosis and Suggestion. Their Nature, Mode of Action, Signification and Position amongst Remedial Measures.* Translated from the German by R. W. Felkin. Demy 8vo. Pp. 233. 1912. Heinemann. 10s. 6d.
- Moll, A.** *Hypnotism.* Cr. 8vo. Scott Pub. Co. 7s. 6d.
- Schofield, A. T.** *Unconscious Therapeutics: or the Personality of the Physician.* 2nd edn. Cr. 8vo. Pp. 330. 1906. Churchill. 5s.
- Tuckey, C. L.** *Treatment by Hypnotism and Suggestion; or Psycho-Therapeutics.* 7th edn. With an additional Chapter on Treatment by Suggestion during the War, by A. P. Allan. Demy 8vo. Pp. 427. 1921. Baillière. 12s.
- Wingfield, H. E.** *An Introduction to the Study of Hypnotism: Experimental and Therapeutic.* 2nd edn. Cr. 8vo. Pp. 203. 1920. Baillière. 7s. 6d.

PHARMACY AND MATERIA MEDICA.

i. GENERAL.

- Beddoes, T. P.** Prescribers' Formulary and Index of Pharmacy. Based on the 1914 B. P. 2nd edn. Pocket size. Pp. 148. 1915. Baillière. 2s. 6d.
- Bennett, R. R.** Materia Medica and Pharmacy, for Medical Students; with an Appendix on Incompatibility. 4th edn. Fcap. 8vo. Pp. 288. 1921. Lewis. 7s. 6d.
- Medical and Pharmaceutical Latin for Students of Pharmacy and Medicine. 2nd edn. Cr. 8vo. Pp. 458. 1914. Churchill. 7s. 6d.
- Crossley-Holland, W.** The Pharmacy Handbook. Cr. 8vo. Pp. 232. 1914. Fp. wde & Hodder. 7s. 6d.
- Forster, E. L. B.** How to Become a Dispenser. Cr. 8vo. Pp. 98. 1917. Fisher Unwin. 2s. 6d.
- Hale-White, Sir W.** Materia Medica, Pharmacy, Pharmacology and Therapeutics. 17th edn. Fcap. 8vo. Pp. 728. 1920. Churchill. 10s. 6d.
- Ince, J.** The Latin Grammar of Pharmacy, for the Use of Medical and Pharmaceutical Students. 9th edn. Cr. 8vo. Pp. 376. 1918. Baillière. 7s. 6d.
- Lucas, E. W.** The Book of Receipts: containing a Veterinary Materia Medica; Pharmaceutical Formularies for the Manufacture of Proprietary Articles, Toilet Preparations, Dietetic Articles, etc., with numerous Chemical and other Tables. Cr. 8vo. Pp. 460. 1907. Churchill. 8s. 6d.
- and **Stevens, H. B.** Practical Pharmacy. 3rd edn. Roy. 8vo. Pp. 431. 1921. Churchill. 27s.
- First Lines in Dispensing. 2nd edn. Cr. 8vo. Pp. 180. 1919. Churchill. 6s.
- MacEwan, P.** Pharmaceutical Formulas. 'P.F.' being 'The Chemist and Druggists' Book of Useful Recipes for the Drug Trade. 9th edn. Cr. 8vo. Pp. 1,078. 1919. 'The Chemist and Druggist' Office. 17s. 6d.
- Pharmaceutical Pocket Book for Practitioners and Students, The.** 10th edn. 18mo. Pp. 360. 1921. Pharmaceutical Press. 3s. 6d.
- Stark, A. C.** Aids to Practical Pharmacy. 2nd edn. Fcap. 8vo. Pp. 165. 1911. Baillière. 3s.
- Sutherland, W. G., and Warwick, F. J.** Dispensing Made Easy: with numerous Formulæ and Practical Hints to secure Accuracy, Simplicity, Rapidity, and Economy. 4th edn. Pp. 102. 1910. John Wright. 3s. 6d.
- Whitla, Sir W.** Elements of Pharmacy, Materia Medica, and Therapeutics. 10th edn. Cr. 8vo. Pp. 686. 1915. Baillière. 10s. 6d.
- Wootton, A. C.** Chronicles of Pharmacy. 2 Vols. 8vo. Pp. 440., 340. 1910. Macmillan. 21s.
- Year Book of Pharmacy, 1920.** Demy 8vo. Pp. 632. Oct., 1920. Churchill. 12s. 6d.

ii. PHARMACOPÆIAS.

- The British Pharmacopœia, 1914.** Demy 8vo. Pp. 633. 1914. Constable. 10s. 6d.
- Craig, W.** Posological Tables. Being a Tabular Arrangement of all the Medicines contained in the 1914 B.P., with Dose, etc. 32mo. 1915. Livingstone. 1s. 6d.
- Gadd, H. W.** A Synopsis of the British Pharmacopœia, 1914, and of the Poison Laws of Great Britain and Ireland. 10th edn. Pocket size. Pp. 200. 1918. Baillière. 2s.

Pharmacy and Materia Medica.

Lucas, E. W., and Stevens, H. B. The Book of Pharmacopœias and Unofficial Formularies. Based upon the 1914 B.P. Cr. 8vo. Pp. 532. 1915. Churchill. 7s. 6d.

Martindale, W. H., and Westcott, W. W. The Extra Pharmacopœia. 17th edn. 2 Vols. Fcap. 8vo. Vol. 1. Pp. 1145. 1920. 27s. Vol. 2. Pp. 720. 1921. 17s. 6d. Lewis.

Squire, Sir P. W. Companion to the British Pharmacopœia, comparing the strength of its various Preparations with those of the United States and other Foreign Pharmacopœias, etc. 19th edn. 8vo. Pp. 1708. 1918. Churchill. 25s.

— Pocket Companion to the British Pharmacopœia. Based upon the 1914 B.P. 2nd edn. Fcap. 8vo. Pp. 1056. 1915. Churchill. 12s. 6d.

— The Pharmacopœias of Thirty of the London Hospitals, arranged in Groups for Comparison. 8th edn. 12mo. Pp. 494. 1910. Churchill. 5s.

— The Pharmacopœia of the Hospital for Diseases of the Throat. 7th edn. Fcap. 8vo. Pp. 76. 1914. Churchill. 2s. 6d.

Thompson, C. J. S. A Compendium of the Pharmacopœias and Formularies (official and unofficial) with Practical Aids to Prescribing and Dispensing. Revised in accordance with the 1914 B.P. 5th edn. 12mo. Pp. 404. 1915. Bale and Danielsson. 6s.

iii. MATERIA MEDICA.

Catechism Series. Materia Medica. 2nd edn. Revised according to the 1914 B.P. Revised by J. A. Whitla. In one volume. cloth. 5s. 6d. 3 Parts. 1s. 9d. each. Livingstone.

Collie, A. E. Aids to Materia Medica. Fcap. 8vo. Pp. 124. 1919. Baillière. 3s.

Fernie, W. T. Herbal Simples Approved for Modern Uses of Cure. A Handbook of Curative Herbal Simples supplied from the Garden, Field, Hedgerow, and Store-closet. 3rd edn. Cr. 8vo. Pp. 596. 1914. John Wright. 6s. 6d.

Ghosh, R. A Treatise on Materia Medica and Therapeutics. 8th edn. by B. H. Deare and B. N. Ghosh. 8vo. Pp. 710. 1920. Simpkin, Marshall. 9s. 6d.

Greenish, H. G. A Text-book of Materia Medica: for Students of Pharmacy and of Medicine. 3rd. edn. 8vo. Pp. 580. 1920. Churchill. 27s.

Marshall, C. A Text-book of Materia Medica for Students of Medicine. 8vo. Pp. 648. 1905. Churchill. 10s. 6d.

Nunn, A. W. Materia Medica, Step by Step. Fcap. 8vo. Pp. 240. 1911. Churchill. 3s. 6d.

Southall, W. Organic Materia Medica: A Handbook treating of the more important of the Animal and Vegetable Drugs. 8th edn. Cr. 8vo. Pp. 410. (1915). 1919. Churchill. 12s. 6d.

Waring, E. J., and Lukis, Sir C. P. Remarks on the Uses of some of the Bazaar Medicines and Common Medical Plants of India. 6th edn. Fcap. 8vo. Pp. 347. 1907. Churchill. 6s.

iv. PHARMACOLOGY.

Brickdale, J. M. F. A Text-book of Pharmacology and Medical Treatment for Nurses. Roy. 8vo. Pp. 406. 1920. Oxford University Press. 25s.

Cow, D. V. Synopsis of Pharmacology. Cr. 8vo. Pp. 132. 1920. Churchill. 7s. 6d.

Cushny, A. R. A Text-book of Pharmacology and Therapeutics, or the Action of Drugs in Health and Disease. 7th edn. Roy. 8vo. Pp. 712. 1918. Churchill. 24s.

Pharmacy and Materia Medica.

- Dixon, W. E.** Practical Pharmacology, for the use of Students of Medicine. Demy 8vo. Pp. 96. 1919. Cambridge University Press. 7s. 6d.
- A Manual of Pharmacology. 5th edn. in preparation. Arnold.
- Francis, F., and Brickdale, J. M. F.** The Chemical Basis of Pharmacology. Demy 8vo. Pp. 384. 1908. Arnold. 15s.
- Freyberger, L.** The Practitioner's Pocket Pharmacology and Formulary. Fcap. 8vo. Pp. 545. 1917. Heinemann. 12s. 6d.
- Gadd, H. W.** Drugs: their Production, Preparation, and Properties. Cr. 8vo. Pp. 192. 1904. Bailière. 5s.
- Martindale, W. H.** Digitalis Assay. A Method of Chemical Standardisation to Equal Physiological Assay. Demy 8vo. Pp. 47. 1913. Lewis. 2s.
- Pembrey, M. S., and Phillips, C. D. F.** The Physiological Action of Drugs. An Introduction to Practical Pharmacology. Demy 8vo. Pp. 1,908. 1901. Arnold. 5s. 6d.
- Sainsbury, H.** Drugs and the Drug Habit. Demy 8vo. Pp. 321. 1909. Methuen. 10s. 6d.
- White, Sir W. H.** (edited by). Text-book of Pharmacology and Therapeutics. Roy. 8vo. Pp. 1050. 1901. Frowde & Hodder. 21s.

NURSING.

GENERAL AND MEDICAL.

- Ashdown, A. M.** A Complete System of Nursing. Demy 8vo. Pp. 746. 1920. Dent. 12s. 6d.
- Bryan, M. T.** The Nurses' Complete Medical Dictionary. Pocket size. Pp. 208. 1912. Baillière. 2s. 6d.
- Cook, J. B.** Index of Practical Nursing. 2nd edn. Cr. 8vo. Pp. 176. 1920. Baillière. 6s.
- Cuff, H. E.** Lectures on Medicine to Nurses. 7th edn. Cr. 8vo. Pp. 265. 1920. Churchill. 7s. 6d.
- Domville, E. J.** A Manual for Hospital Nurses and others engaged in Attending on the Sick. 9th edn. Cr. 8vo. Pp. 160. 1907. Churchill. 1s.
- Fitzwilliams, D. C. L.** A Nursing Manual for Nurses and Nursing Orderlies. Cr. 8vo. Pp. 466. 1914. Frowde & Hodder. 6s. 6d.
- Forsyth, D.** Lectures on Medical Diseases, for Nurses. Cr. 8vo. Pp. 230. 1914. Baillière. 3s. 6d.
- Groves, E. W. H., and Brickdale, J. M. F.** Text Book for Nurses: Anatomy, Physiology, Surgery and Medicine. 2nd edn. 4th imp. Roy. 8vo. Pp. 456. 1921. Frowde & Hodder. 25s.
- Gullan, M. A.** Theory and Practice of Nursing. Demy 8vo. Pp. 280. 1920. Lewis. 10s. 6d.
- Hassard, E. M., and Mrs A. R.** Practical Nursing. For Male Nurses in the R.A.M.C. and other Forces. Cr. 8vo. Pp. 352. 1910. Frowde & Hodder. 4s. 6d.
- Henderson, J.** Medicine for Nurses. Cr. 8vo. Pp. 270. 1921. Arnold. 8s. 6d.
- Humphry, L.** A Manual of Nursing: Medical and Surgical. 39th edn. Cr. 8vo. Pp. 267. 1917. Griffin. 3s. 6d.
- Luckes, E. C. E.** General Nursing. 10th edn. Cr. 8vo. Pp. 360. Kegan Paul. 5s.
- Morten, H.** (edited by). A Complete System of Nursing. By Medical Men and Nurses. 4th edn. Cr. 8vo. Pp. 402. 1915. Dent. 9s. 6d.
- (compiled by). The Nurse's Dictionary, with Phonetic Punctuation by M. I. Burdett. 10th edn. Pocket size. Pp. 208. N.D. Scientific Press. 3s. 6d.
- Stewart, I., and Cuff, H. E.** Practical Nursing. 5th edn. Cr. 8vo. Pp. 458. 1919. Blackwood. 6s.
- Watson, J. K.** A Handbook for Nurses; with Examination Questions based on the Contents of the Chapters. 6th edn. Cr. 8vo. Pp. 788. 1921. Scientific Press. 10s. 6d.
- Weeks-Shaw, C., and Radford, W.** A Text-book of Nursing for Home and Hospital Use. 2nd edn. Cr. 8vo. Pp. 358. 1896. Arnold. 4s. 6d.
- Woodwark, A. S.** Medical Nursing. Cr. 8vo. Pp. 324. 1914. Arnold. 5s.

VETERINARY.

i. PHYSIOLOGY AND ANATOMY.

Bradley, O. C. Outlines of Veterinary Anatomy. Cr. 8vo. Pp. 244. 1897. Baillière. 10s. 6d.

— A Guide to the Dissection of the Dog. Demy 8vo. Pp. 249. 1919. W. Green. 15s.

— The Topographical Anatomy of the Limbs of the Horse. Roy. 8vo. Pp. 183. 1920. W. Green. 21s.

— and **Browne, T. G.** Atlas of the Horse: Its Anatomy and Physiology. Fcap. folio. Pp. 38 and 13 Plates by G. Dupuy. 1918. Baillière. 7s. 6d.

Paton, D. N., and Orr, J. B. Essentials of Veterinary Physiology. 3rd edn. Roy. 8vo. Pp. 693. 1920. W. Green. 25s.

Share-Jones, J. T. The Surgical Anatomy of the Horse. 4 Vols. Demy 4to. Vol. 1. Head and Neck. Pp. 172. 1906. Vol. 2. The Fore Limb. Pp. 202. 1907. Vol. 3. The Hind Limb. Pp. 230. 1908. Vol. 4. The Foot and Trunk. Pp. 270. 1914. Baillière. 16s. 6d. each.

Smith, Sir F. Manual of Veterinary Physiology. 5th edn. Demy 8vo. Pp. 908. 1921. Baillière. 35s.

Strangeway, T. Veterinary Anatomy. 10th edn. Demy 8vo. Pp. 617. 1917. W. Green. 25s.

ii. MEDICINE AND SURGERY.

Cadiot, P. J., and Dollar, J. A. W. Studies in Clinical Veterinary Medicine, and Surgery. Roy. 8vo. Pp. 620. 1903. Baillière. 15s.

Courtenay, E., and Hobday, F. T. G. Manual of the Practice of Veterinary Medicine. 3rd edn. Demy 8vo. Pp. 472. 1913. Baillière. 12s.

Dollar, J. A. W. Regional Veterinary Surgery and Operative Technique. Reissue. 8vo. Pp. 1164. 1920. Baillière. 25s.

Fleming, G., and Craig, J. Veterinary Obstetrics: including the Diseases and Accidents Incidental to Pregnancy and Parturition. 3rd edn. Demy 8vo. Pp. 536. 1917. Baillière. 18s.

Hoare, E. W. (edited by). A System of Veterinary Medicine. By Various Writers. 2 Vols. Roy. 8vo. 1913-14. Vol. 1. Microbial Diseases. Pp. 1344. Vol. 2. General Diseases, including a Section on Parasites. Pp. 1644. Baillière. 55s.

Hobday, F. T. G. Surgical Diseases of the Dog and Cat: with Chapters on Anæsthetics and Obstetrics. 3rd edn. in preparation. Baillière.

MacCabe, F. F. Horse-Mastership. A Lecture, with Notes on the Schooling of Jumpers, the Bacteriology of Coughing, and the Diseases carried by Horse-Flies, Ticks, and Tse-tse Flies. Cr. 8vo. Pp. 82. 1911. Baillière. 3s. 6d.

Reeks, H. C. The Common Colics of the Horse: their Causes, Symptoms, Diagnosis and Treatment. 3rd edn. Pp. 386. 1914. Baillière. 6s. 6d.

— Diseases of the Horse's Foot. 2nd edn. in preparation. Baillière.

Smythe, R. H. Wounds of Animals and their Treatment. Cr. 8vo. Pp. 204. 1918. Baillière. 7s. 6d.

Thompson, H. Elementary Lectures on Veterinary Science for Agricultural Students, Farmers, and Stock-keepers. 4th edn. Demy 8vo. Pp. 560. 1919. Baillière. 15s.

Twort, F. W., and Ingram, G. E. John's Disease: a Monograph. (Enteritis chronica pseudotuberculosis bovis). Demy 8vo. Pp. 192. 1913. Baillière. 10s. 6d.

Williams, W. The Principles and Practice of Veterinary Medicine. 9th edn. Revised by W. O. Williams and F. S. H. Baldrey. 8vo. Pp. 1004. 1909. Baillière. 25s.

iii. THERAPEUTICS; TOXICOLOGY, etc.

Banham, G. A., and Young, W. J. Table of Veterinary Posology and Therapeutics, with Weights, Measures, etc., for the use of Students and Practitioners. Revised in accordance with the 1914 B.P. 4th edn. Fcap. 8vo. Pp. 288. 1918. Baillière. 5s.

Hoare, E. W. A Manual of Veterinary Therapeutics: A Guide to the Treatment of Diseases of Domestic Animals. 3rd edn. Demy 8vo. Pp. 968. 1916. Baillière. 21s.

Jowett, W. Notes on Blood-Serum Therapy, Preventive Inoculation, and Toxin and Serum Diagnosis. For Veterinary Practitioners and Students. Cr. 8vo. Pp. 212. 1907. Baillière. 6s.

Lander, G. D. Veterinary Toxicology. Demy 8vo. Pp. 324. 1912. Baillière. 8s. 6d.

Nunn, J. A. Veterinary Toxicology. Cr. 8vo. Pp. 204. 1907. Baillière. 5s.

Peacey, E. Common Diseases of Pigs and their Diagnosis, including Swine Fever and its Treatment with Serum. Cr. 8vo. Pp. 122. 1918. Baillière. 4s. 6d.

Scott, W. Clinical Bacteriology and Vaccine Therapy for Veterinary Surgeons. Demy 8vo. Pp. 286. 1913. Baillière. 8s. 6d.

Smythe, R. H. Veterinary Parasitology. Cr. 8vo. Pp. 144. 1911. Baillière. 6s.

Steel, J. H. A Treatise on the Diseases of the Ox; being a Manual of Bovine Pathology for Veterinary Students and Practitioners. 8vo. Longmans. 21s.

iv. GENERAL.

Barton, F. T. The Horse: Ailments and Accidents. Cr. 8vo. Pp. 202. 1907. Arnold. 2s. 6d.

— Horses and Practical Horse-Keeping. 2nd edn. Demy 8vo. Pp. 644. Jarrolds. 21s.

Cross, H. E. The Camel and Its Diseases, being Notes for Veterinary Surgeons and Commandants of Camel Corps. Cr. 8vo. Pp. 159. 1917. Baillière. 5s.

Fleming, G., and MacQueen, J. Practical Horse-Shoeing. 11th edn. Cr. 8vo. Pp. 140. 1916. Baillière. 3s. 6d.

Galvayne, S. The Twentieth Century Book on the Horse. 3rd edn. Demy 4to. Pp. 372. 1912. Baillière. 25s.

Leese, A. S. Tips on Camels, for Veterinary Surgeons on Active Service. Roy. 8vo. Pp. 56. 1917. Baillière. 2s. 6d.

Linton, R. G. Veterinary Hygiene. Roy. 8vo. Pp. 443. 1921. W. Green. 26s.

TEXTILES.

i. HISTORICAL AND ECONOMIC.

Chapman, S. J. The Lancashire Cotton Industry. Demy 8vo. Pp. 320. 1904. Sherratt & Hughes. 7s. 6d.

— The Cotton Industry and Trade. Cr. 8vo. Pp. 183. 1905. Methuen. 5s.

Clapham, J. H. The Woollen and Worsted Industries. Cr. 8vo. Pp. 316. 1907. Methuen. 7s. 6d.

Daniels, G. W. The Early English Cotton Industry; with some unpublished letters of Samuel Crompton. Cr. 8vo. Pp. 245. 1920. Longmans. 8s. 6d.

Horner, J. The Linen Trade of Europe during the Spinning Wheel Period. Demy 8vo. Pp. 605. 1920. M'Caw, Stevenson & Orr. 25s.

Rawley, T. C. The Silk Industry and Trade. 8vo. Pp. 188. 1919. King. 10s. 6d.

— Economics of the Silk Industry. A Study in Industrial Organisation. 8vo. Pp. 365. 1919. King. 10s. 6d.

ii. RAW MATERIALS.

Barker, A. F., and Priestley, E. Wool Carding and Combing. With Notes on Sheep Breeding and Wool Growing. Cr. 8vo. Pp. 276. 1919. Cassell. 7s. 6d.

Bigwood, G. Cotton. (Staple Trades and Industries.) Demy 8vo. Pp. 212. 1918. Constable. 6s. 6d.

Bowman, F. H. The Structure of the Cotton Fibre and its Relation to Technical Applications. Cr. 8vo. Pp. 490. 1908. Macmillan. 10s. 6d.

— The Structure of the Wool Fibre and its Relation to the Use of Wool for Technical Purposes. Cr. 8vo. Pp. 496. 1908. Macmillan. 10s. 6d.

Carter, H. R. Combers and Combing. Demy 8vo. Pp. 144. 1915. Bale & Danielsson. 5s. 6d.

— Ramie (Rhea) China Grass, the new Textile Fibre. Cr. 8vo. Pp. 140. 1911. Technical Pub. Co. 6s. 9d.

— Flax and its Products. Demy 8vo. Pp. 317. 1920. Bale & Danielsson. 10s. 6d.

— Cordage Fibres: their Cultivation, Extraction and Preparation for the Market. Demy 8vo. Pp. 124. 1909. Bale & Danielsson. 2s. 6d.

— Jute and its Manufacture. Demy 8vo. Pp. 198. 1921. Bale & Danielsson. 5s.

Georgievics, G. Chemical Technology of Textile Fibres. Translated from the German. New edn. in preparation. Scott, Greenwood.

Mitchell, C. A., and Prideaux, R. M. Fibres used in Textile and Allied Industries. Demy 8vo. Pp. 200. 1910. Scott, Greenwood. 8s. 6d.

Ormerod, F. Wool. (Staple Trades and Industries). Demy 8vo. Pp. 229. 1918. Constable. 6s. 6d.

Priestman, H. Principles of Wool Combing. 2nd edn. Demy 8vo. Pp. 248. 1921. Bell. 12s.

Woodhouse, T., and Kilgour, P. Cordage and Cordage Hemp and Fibres. Cr. 8vo. Pp. 123. 1919. Pitman. 3s.

iii. SPINNING AND DOUBLING.

a. Cotton.

Balls, W. L. Handbook of Spinning Tests for Cotton Growers. Demy 8vo. Pp. 59. 1920. Macmillan. 3s. 6d.

Dobson, B. Some Difficulties in Cotton Spinning. Cr. 4to. Pp. 131. 1901. Heywood. 2s. 6d.

Dobson, B. Humidity in Cotton Spinning. New edn. revised by W. Midgley. Cr. 4to. Pp. 145. 1901. Heywood. 3s. 6d.

Lomax, J. W. Fine Cotton Spinning. A Practical Manual. Cr. 8vo. Pp. 180. 1913. Emmott. 3s. 6d.

Nasmith, J. Student's Cotton Spinning. 4th edn. Cr. 8vo. Pp. 636. 1920. Heywood. 15s.

Taggart, W. S. Cotton Spinning. 3 Vols. Cr. 8vo. Vol. 1. Including all Processes up to the end of Carding. 6th edn. Pp. 322. 1919. 8s. 6d. Vol. 2. Including the Processes up to the end of Fly-frames. 6th edn. Pp. 306. 1921. 8s. 6d. Vol. 3. 5th edn. Pp. 520. 1920. 10s. Macmillan.

Thornley, T. Cotton Spinning. Elementary, or First Year. 4th edn. Cr. 8vo. Pp. 320. 12s. 6d. Intermediate, or Second Year. 3rd edn. Cr. 8vo. Pp. 320. 1916. 8s. 6d. Honours, or Third Year. 2nd edn. Cr. 8vo. Pp. 216. 1907. 6s. Scott, Greenwood.

— Cotton Waste; its Production, Manipulation and Uses. 2nd edn. Demy 8vo. Pp. 412. 1921. Scott, Greenwood. 17s. 6d.

Wakefield, S. Cotton Doubling and Twisting. 4 Vols. Demy 8vo. 1916. 40s. Also in sections, paper covers. Sec. 1. Yarn Testing. 4s.; Sec. 2. Doubler Winding, 4s.; Sec. 3. Ring and Flyer Twisting, 6s. 6d.; Sec. 4. Twiner Twisting, 6s. 6d.; Sec. 5. Clearing and Gassing, 5s. 6d.; Sec. 6. Preparing, Reeling, and Bundling, 5s.; Sec. 7. Threads and their Manufacture, 8s. 6d.; Sec. 8. Costs, Waste, and Organisation, 6s. 6d. Marsden.

b. Woollen and Worsted.

Priestman, H. Principles of Worsted Spinning. 2nd edn. Demy 8vo. Pp. 365. 1921. Longmans. 15s.

— Principles of Woollen Spinning. 8vo. Pp. 332. 1908. Longmans. 10s. 6d.

Turner, H. Worsted Spinners' Practical Handbook. Cr. 8vo. Pp. 148. 1915. Scott, Greenwood. 7s.

Vickerman, C. Woollen Spinning. A Text Book for Students in Technical Colleges, and for skilled practical men in Woollen Mills. Cr. 8vo. Pp. 364. 1894. Macmillan. 7s. 6d.

c. Jute, Flax, Silk.

Carter, H. R. The Spinning and Twisting of Long Vegetable Fibres (Flax, Hemp, Jute, Tow, and Ramie). 2nd edn. Med. 8vo. Pp. 434. 1919. Griffin. 24s.

— Flax, Hemp and Jute Spinners' Catechism. Demy 8vo. Pp. 276. 1910. Bale & Danielsson. 7s. 6d.

— Rope, Twine, and Thread Making. Demy 8vo. Pp. 151. 1909. Bale & Danielsson. 5s.

— Modern Flax, Hemp and Jute Spinning and Twisting. A Practical Handbook for the Use of Flax, Hemp, and Jute Spinners, Thread, Twine and Rope Makers. Demy 8vo. Pp. 200. 1907. Scott, Greenwood. 8s. 6d.

Leggatt, W. The Theory and Practice of Jute Spinning. New edn. Demy 8vo. Pp. 300. 1921. Wm. Kidd. 21s.

Rayner, H. Silk Throwing and Waste Silk Spinning. New edn. in preparation. Scott, Greenwood.

Sharp, P. Flax, Tow, and Jute Spinning. Cr. 8vo. n.d. Simpkin, Marshall. 5s.

iv. WEAVING AND SIZING.

Bell, T. F. Jacquard Weaving and Designing. Demy 8vo. Pp. 311. 1895. Longmans. 14s.

Brown, A. A Practical Treatise on the Construction of the Power Loom and the Art of Weaving. 10th edn. Sm. Cr. 8vo. Pp. 162. 1921. Simpkin, Marshall. 5s.

Gruner, A. Power-Loom Weaving and Yarn Numbering, According to Various Systems, with Conversion Tables. Translated from the German. Cr. 8vo. Pp. 150. 1900. Scott, Greenwood. 8s. 6d.

Heylin, H. B. The Cotton Weavers' Handbook. 2nd edn. in preparation. Griffin.

- Hooper, L.** Weaving for Beginners, with Plain Directions for Making a Hand Loom, Mounting it, and starting the Work. Demy 4to. Pp. 122. 1920. Pitman. 5s.
- **Hand-Loom Weaving, Plain and Ornamental.** New imp. Cr. 8vo. Pp. 368. 1920. Pitman. 10s. 6d.
- Kinzer, H., and Walter, K.** Theory and Practice of Damask Weaving. Translated from the German. Roy. 8vo. Pp. 110. 1903. Scott, Greenwood. 9s. 6d.
- Kretschmar, C.** Yarn and Warp Sizing in all its Branches. Translated from the German. Roy. 8vo. Pp. 181. 1911. Scott, Greenwood. 12s. 6d.
- Leggatt, W.** Theory and Practice of the Art of Weaving Linen and Jute Manufactures, by Power Loom. Part 1. Letterpress. 4s. Part 2. Diagrams. 6s. Wm. Kidd.
- Marsden, R.** Cotton Weaving. Sm. Post 8vo. Pp. 533. 1895. Bell. 10s. 6d.
- Nisbet, H.** Preliminary Operations of Weaving. Vol. 1. Preparation of Grey or Plain Warps. Demy 8vo. Pp. 414. 1914. Emmott. 10s. 6d.
- **Theory of Sizing for Manufacturers of Textile Fabrics.** Cr. 8vo. Pp. 86. 1912. Emmott. 3s. 6d.
- Taylor, J. T.** Cotton Weaving and Designing. New Imp. Cr. 8vo. Pp. 360. 1919. Longmans. 9s.
- Woodhouse, T.** Heads and Reeds for Weaving: Setts and Porters. Cr. 8vo. Pp. 97. 1920. Emmott. 4s. 6d.
- **and Milne, T.** Jute and Linen Weaving. Cr. 8vo. Pp. 618. 1914. Macmillan. 15s.
- v. DYEING AND PRINTING.**
- Beech, F.** The Dyeing of Cotton Fabrics. A Practical Handbook for the Dyer and Student. 2nd edn. Demy 8vo. Pp. 272. 1917. Scott, Greenwood. 12s. 6d.
- **The Dyeing of Woollen Fabrics.** Demy 8vo. Pp. 228. 1902. Scott, Greenwood. 8s. 6d.
- Blackwood, W.** Engraving for Calico Printing. Med. 8vo. Pp. 291. 1913. Griffin. 12s. 6d.
- Ganswindt, A.** Dyeing-Silk, Mixed Silk Fabrics and Artificial Silks. Translated from the German by C. Salter. Demy 8vo. Pp. 230. 1921. Scott, Greenwood. 12s. 6d.
- Hurst, G. H.** Silk Dyeing. Small Post 8vo. Pp. 226. 1892. Bell. 7s. 6d.
- Knecht, E., and Fothergill, J. B.** The Principles and Practice of Textile Printing. Med. 8vo. Pp. 631. 1912. Griffin. 42s.
- Paterson, D.** The Colour Printing of Carpet Yarns: a Manual for Colour Chemists and Textile Printers. Demy 8vo. Pp. 136. 1900. Scott, Greenwood. 8s. 6d.
- **Colour Matching on Textiles.** A Manual intended for the use of Students of Colour Chemistry, Dyeing and Textile Printing. Demy 8vo. Pp. 132. 1901. Scott, Greenwood. 8s. 6d.
- **Textile Colour Mixing.** 2nd edn. Demy 8vo. Pp. 140. 1915. Scott, Greenwood. 8s. 6d.
- Rothwell, C. F. S.** Textile Printing. A Practical Manual, including the Processes used in the Printing of Cotton, Woollen, Silk, and Half-Silk Fabrics. 2nd edn. in preparation. Griffin.
- vi. BLEACHING AND FINISHING.**
- Beaumont, R.** The Finishing of Textile Fabrics (Woollen, Worsted, Union, and other Cloths). Demy 8vo. Pp. 260. 1909. Scott, Greenwood. 12s. 6d.
- Carter, H. R.** Bleaching and Dyeing of Flax, Hemp and Jute Yarns and Fabrics. Demy 8vo. Pp. 176. 1911. Bale & Danielsson. 2s. 6d.
- Duerr, G., and Turnbull, W.** Bleaching and Calico Printing. Large 8vo. Pp. 153. 1896. Griffin. 12s. 6d.
- Polleyn, F.** Dressings and Finishing for Textile Fabrics and their Application. Demy 8vo. Pp. 280. 1911. Scott, Greenwood. 8s. 6d.

"Practical Bleacher." Modern Bleaching and Finishing. Cr. 8vo. Pp. 70. N.D. Heywood. 2s.

Tailfer, L. Practical Treatise on the Bleaching of Linen and Cotton Yarn and Fabrics. 2nd edn. Demy 8vo. Pp. 337. 1917. Scott, Greenwood. 17s.

Trotman, S. R., and Thorp, E. L. The Principles of Bleaching and Finishing of Cotton. 2nd edn. Large 8vo. Pp. 359. 1918. Griffin. 21s.

Woodhouse, T. The Finishing of Jute and Linen Fabrics. Demy 8vo. Pp. 326. 1916. Emmott. 8s. 6d.

vii. DESIGNING, TESTING, RESEARCH.

Ashenhurst, T. R. Design in Textile Fabrics. Cr. 8vo. Pp. 256. 1907. Cassell. 4s. 6d.

Barker, A. F. An Introduction to the Study of Textile Design. 2nd edn. Demy 8vo. Pp. 230. 1919. Methuen. 8s. 6d.

— and **Midgley, E.** Analysis of Woven Fabrics. Demy 8vo. Pp. 316. 1914. Scott, Greenwood. 8s. 6d.

Beaumont, R. Colour in Woven Design. A Treatise on the Science and Technology of Textile Colouring in Woollen, Worsted, Cotton, and Silk Materials. 2nd edn. Med. 8vo. Pp. 372. 1912. Pitman. 21s.

Dumville, J., and Kershaw, S. Worsted Cone Drawing. Demy 8vo. Pp. 104. 1921. Heywood. 7s. 6d.

Herzfeld, J. The Technical Testing of Yarns and Textile Fabrics, with Reference to Official Specifications. Translated from the German. 3rd edn. revised by D. T. Nisbet. 8vo. Pp. 217. 1920. Scott, Greenwood. 17s. 6d.

Nisbet, H. Grammar of Textile Design. 2nd edn. Demy 8vo. Pp. 514. 1919. Scott, Greenwood. 21s.

North, B., and Bland, N. Chemistry for Textile Students. A Manual suitable for Technical Students in the Textile and Dyeing Industries. Demy 8vo. Pp. 379. 1920. Cambridge University Press. 30s.

Stephenson, C., and Suddards, F. A Text-book Dealing with Ornamental Design for Woven Fabrics. 3rd edn. Demy 8vo. Pp. 286. 1905. Methuen. 8s. 6d.

Watson, W. Textile Design and Colour; Elementary Weaves and Figured Fabrics. New edn. in the Press. Longmans.

— Advanced Textile Design. 8vo. Pp. 474. 1913. Longmans. 14s.

Woodhouse, T., and Milne, R. Textile Design: Pure and Applied. Cr. 8vo. Pp. 528. 1912. Macmillan. 12s. 6d.

viii. GENERAL MANUFACTURE.

Beaumont, R. Woollen and Worsted: The Theory and Technology of the Manufacture of Woollen, Worsted, Union Yarns, and Fabrics. 2nd edn. Roy. 8vo. Pp. 716. 1919. Bell. 42s.

— Union Textile Fabrication, with numerous original Diagrams, Sectional Drawings, and Photographic Reproductions of Spun and Woven Specimens. Demy 8vo. Pp. 376. 1920. Pitman. 21s.

— Standard Cloths: Structure and Manufacture (General, Military and Naval). Demy 8vo. Pp. 342. 1916. Scott, Greenwood. 14s. 6d.

Carter, H. R. The Manufacture of Linen, Hemp, and Jute Fabrics. Demy 8vo. Pp. 97. 1909. Bale & Danielsson. 3s. 6d.

Chamberlain, J., and Quilter, J. H. Knitted Fabrics. Cr. 8vo. Pp. 155. 1919. Pitman. 3s.

Davis, W. Hosiery Manufacture. A Treatise showing the Development and Application of the Principles of Knitted Fabric Manufacture. Demy 8vo. Pp. 146. 1920. Pitman. 9s.

Foltzer, J. Artificial Silk and its Manufacture. Translated from the French by T. Woodhouse. Demy 8vo. Pp. 256. 1921. Pitman. 21s.

Hooper, L. Silk. Its Production and Manufacture. Cr. 8vo. Pp. 134. 1911. Pitman. 3s.

Hunter, J. A. Wool. From the Raw Material to the Finished Product. Cr. 8vo. Pp. 128. 1912. Pitman. 3s.

Lord, R. T. Decorative and Fancy Textile Fabrics. For Manufacturers and Designers of Carpets, Damask, Dress and all Textile Fabrics. Demy 8vo. Pp. 200. 1898. Scott, Greenwood. 8s. 6d.

Moore, A. S. Linen. From the Field to the Finished Product. Cr. 8vo. Pp. 141. 1914. Pitman. 3s.

Peake, R. J. Cotton. From the Raw Material to the Finished Product. Cr. 8vo. Pp. 132. 1909. Pitman. 3s.

Radcliffe, J. W. The Manufacture of Woollen and Worsted Yarns. Cr. 8vo. Pp. 350. 1915. Emmott. 6s.

Reiser, N. Faults in the Manufacture of Woollen Goods and their Prevention. Translated from the German. Cr. 8vo. Pp. 170. 1903. Scott, Greenwood. 6s.

ix. TEXTILE MACHINERY.

Booth, N. The Ring Spinning Frame: a Guide for Overlookers and Students. Cr. 8vo. Pp. 76. 1912. Scott, Greenwood. 4s.

Dobson, B. Evolution of the Spinning Machine. Cr. 8vo. Pp. 164. 1915. Marsden. 2s.

Lander, C. H. Ventilation and Humidity in Textile Mills and Factories. Cr. 8vo. Pp. 184. 1914. Longmans. 6s.

Nasmith, J. Recent Cotton Mill Construction and Engineering. 3rd edn. Cr. 8vo. Pp. 382. 1909. Heywood. 7s. 6d.

Roberts, T. Tappet and Dobby Looms: Their Mechanism and Management. Cr. 8vo. Pp. 228. 1912. Emmott. 3s. 6d.

Taggart, W. S. Textile Mechanics. 8vo. Pp. 123. 1915. Routledge. 2s. 6d.

—Cotton Machinery Sketches. Sup. Royal 8vo. Pp. 134. 1911. Macmillan. 3s.

Thornley, T. Cotton Combing Machines. Demy 8vo. Pp. 348. 1902. Scott, Greenwood. 8s. 6d.

x. CALCULATIONS AND REFERENCE BOOKS, etc.

Barker, A. F. Wool and the Textile Industries: Raw Material to Finished Fabric, in English, French, Italian and Spanish. With a Technical Glossary (in Pocket). 8vo. Pp. 42. 1919. Jowett and Sowry. 10s.

Blanco, A. E. (compiled by). Piece Goods Manual. Fabrics described; Textile, Knit Goods, Weaving terms explained; with Notes on the Classification of Samples. Demy 8vo. Pp. 196. 1918. King. 5s.

Bradbury, F. Calculations in Yarns and Fabrics. 3rd edn. Cr. 8vo. Pp. 322. 1920. Halifax: F. King. 6s. 6d.

Carter, H. R. Practical Mill and Factory Arithmetic. Demy 8vo. Pp. 186. 1911. Bale and Daniels-son. 2s. 6d.

Cook. Cotton Spinning Calculations. Cr. 8vo. Pp. 94. 1915. Marsden. 2s.

Cotton Year Book, 1921. 16th edn. Cr. 8vo. Pp. 708. 1921. Marsden. 7s. 6d.

Hardman, A. H. Productive Costs in Cotton Spinning Mills. Cr. 8vo. Pp. 132. 1912. Emmott. 3s. 6d.

Heylin, H. B. Cottons, Linens, Woollens, Silks; How to Buy and Judge Materials. Cr. 8vo. Pp. 101. 1919. Heywood. 3s.

—A Handbook for Buyers and Sellers in the Cotton Trade. Being a Handbook for Merchants, Shipping Manufacturers, etc. Med. 8vo. Pp. 242. 1913. Griffin. 10s. 6d.

- Mackie, J.** How to Make a Woollen Mill Pay. Cr. 8vo. Pp. 76. 1904. Scott, Greenwood. 4s. 6d.
- Palmer, T. F.** Dictionary of Technical Textile Terms. (Trilingual). Vol. 1. English-French-Spanish. Pocket size. Pp. 68. 1920. Hirschfeld. 5s.
- Reiser, N.** Spinning and Weaving Calculations, especially relating to Woollens. Translated from the German. Demy 8vo. Pp. 160. 1904. Scott, Greenwood. 12s. 6d.
- Taggart, W. S.** Cotton Spinning Calculations. New edn. Cr. 8vo. Pp. 255. 1920. Macmillan. 7s. 6d.
- Textile Manufacturer's Year Book.** 1921. Cr. 8vo. Pp. 344. March, 1921. Emmott. 3s. 6d.
- Whitwam, J. H.** Textile Calculations. Manufacture and Mechanism. Demy 8vo. Pp. 438. 1920. Pitman. 25s.
- Winterbottom, J.** Cotton Spinning Calculations and Yarn Costs: a Practical and Comprehensive Manual of Calculations, Yarn Costs and other Data involved in adapting the Machinery in all Sections, and for all Grades, of Spinning and Doubling. New edn. in the Press. Longmans.
- Woodhouse, T., and Brand, A.** Textile Mathematics. Parts 1 and 2. Cr. 8vo. Pp. 122 each. 1921. Blackie. 2s. 6d. each.
- Wool Year Book, 1921.** Cr. 8vo. Pp. 612. 1921. Marsden. 7s. 6d.
- xi. LACE, EMBROIDERY, etc.**
- Brinton, R. S.** Carpets. Cr. 8vo. Pp. 130. 1919. Pitman. 3s.
- Channer, C. C., and Roberts, M. E.** Lace Making in the Midlands, Past and Present. Cr. 8vo. Pp. 90. 1900. Methuen. 3s. 6d.
- Christie, Mrs. A. H.** Embroidery and Tapestry Weaving. 4th edn. Cr. 8vo. Pp. 320. 1920. Pitman. 10s. 6d.
- Milroy, M. E. W.** Home Lace Making. A Handbook for Teachers and Pupils. 2nd edn. Cr. 8vo. Pp. 64. 1917. Scott, Greenwood. 2s. 6d.
- Okey, T.** An Introduction to the Art of Basket Making. Demy 8vo. Pp. 162. 1915. Pitman. 5s.
- Poole, B. W.** The Clothing Trades Industry. Cr. 8vo. Pp. 110. 1920. Pitman. 3s.
- Smith, W.** The Chemistry of Hat Manufacturing. Lectures delivered before the Hat Manufacturers' Association. Revised and edited by A. Shonk. Cr. 8vo. Pp. 132. 1906. Scott, Greenwood. 8s. 6d.
- Symonds, M.** Elementary Embroidery. Fcap. 4to. Pp. 164. 1915. Pitman. 7s. 6d.
- Walker, L.** Varied Occupations in Weaving and Cane and Straw Work. Gl. 8vo. Pp. 242. 1901. Macmillan. 3s. 6d.
- Varied Occupations in String Work. Gl. 8vo. Pp. 270. 1914. Macmillan. 3s. 6d.
- Wilkinson, M. E.** Art Needlework and Design, Point Lace. A Manual of Applied Art. Oblong Quarto. 1907. Scott, Greenwood. 4s. 6d.
- xii. BOOT AND SHOE MANUFACTURE.**
- Harding, J. S.** The Boot and Shoe Industry. Cr. 8vo. Pp. 136. 1918. Pitman. 3s.
- Hasluck, P. N.** (edited by). Boot and Shoe Pattern Cutting and Clicking. Cr. 8vo. Pp. 168. 1906. Cassell. 3s.
- Plucknett, F.** Introduction to the Theory and Practice of Boot and Shoe Manufacture. 8vo. Pp. 336. 1916. Longmans. 7s. 6d.
- xiii. LEATHER WORK.**
- Carter, E. E.** Artistic Leather Work. A Handbook on the Art of Decorating Leather. Cr. 8vo. Pp. 63. 1912. Spon. 3s. 6d.

Textiles.

Ellis, B. E. *Gloves and the Glove Trade.* Cr. 8vo. Pp. 156. 1921.
Pitman. 3s.

Leland, C. G. *Leather Work: Stamped, Moulded, Cut, Cuir-Bonilli, Sewn, etc.* 3rd edn. Fcap. 4to. Pp. 96. Pitman, 5s.

GRAPHIC ARTS.

I. PRINTING AND ITS ALLIED BRANCHES.

- Cumming, D.** Handbook of Lithography. An Exhaustive, Practical treatise on the various methods adopted in working the process. 2nd edn. Cr. 8vo. Pp. 243. 1919. Black. 10s. 6d.
- Fletcher, F. M.** Wood-block Printing. A description of the craft of woodcutting and colour printing based on the Japanese Practice. Cr. 8vo. Pp. 132. 1916. Pitman. 8s. 6d.
- Harrap, C.** Transferring. The Practice of Transferring to Stone, Zinc and Aluminium as applied to Planographic Printing. Cr. 8vo. Pp. 162. 1912. Raithby, Lawrence. 3s. 6d.
- Hart, H.** Rules for Compositors and Readers at the University Press, Oxford. Revised by Sir J. Murray and H. Bradley. 24th edn. 24mo. Pp. 120. 1921. Oxford University Press. 2s.
- Herrick, T. P.** Embossing, Blocking, Die-Stamping. A Practical Guide. 4th edn. Cr. 8vo. Pp. 84. N.D. Raithby, Lawrence. 1s. 6d.
- Jacobi, C. T.** Printing: A Practical Treatise on the Art of Typography as applied more particularly to the Printing of Books. 6th edn. Small post 8vo. Pp. 446. 1919. Bell. 10s. 6d.
- Some Notes on Books and Printing: a Guide for Authors, Publishers and others. 4th edn. Demy 8vo. Pp. 180. 1912. Bell. 6s.
- Joyner, G.** Display Work (Typography). Demy 8vo. Pp. 42. 1919. Raithby, Lawrence. 1s. 9d.
- Joyner, G.** Practical Printing. A Handbook of the Art of Typography. 2 Vols. 6th edn. Large Cr. 8vo. 1911. Vol. 1. Arts of Composition, Press and Machine Work. Pp. 840. Vol. 2. Colour Printing, Warehouse Work, Stereotyping, Electrotyping, Estimating, etc. Pp. 530. Raithby, Lawrence. 9s. the 2 vols.
- Kirkbride, J.** Engraving for Illustration, Historical and Practical Notes. Cr. 8vo. Pp. 72. 1903. Scott, Greenwood. 2s. 6d.
- Legros, L. A., and Grant, J. C.** Typographical Printing Surfaces: the Technology and Mechanism of their Production. 8vo. Pp. 756. 1916. Longmans. 67s. 6d.
- Naylor, T. E.** Principles and Practice of Newspaper Make-up. The Production of Newspapers from the standpoint of the Practical Journalist and Printer. Cr. 8vo. Pp. 80. 1918. Raithby, Lawrence. 2s. 6d.
- Paton, H.** Etching, Dry-Point and Mezzotint. A Practical Treatise for the Painter-etcher. 2nd edn. Med. 8vo. Pp. 213. 1909. Raithby, Lawrence. 15s.
- Peddie, R. A.** An Outline of the History of Printing: to which is added the History of Printing in Colours. New impression in preparation. Grafton.
- Philip, A. J.** The Production of the Printed Catalogue: Preparation, Printing and Publication. Cr. 8vo. Pp. 151. 1910. Grafton. 6s.
- Possnett, V.** Stonework: How and Why. Cr. 8vo. Pp. 112. 1912. Raithby, Lawrence. 2s. 6d.
- Practical Notes on Stereotyping and Electrotyping.** 2nd edn. Cr. 8vo. Pp. 152. 1914. Raithby, Lawrence. 3s. 6d.
- Rhodes, H. J.** The Art of Lithography. Demy 8vo. Pp. 344. 1914. Scott, Greenwood. 12s. 6d.

Graphic Arts.

Southward, J. *Modern Printing: A Text-book for the Trade Classes in Typography and the Auxiliary Arts.* 3rd edn. Revised, re-arranged, and brought up-to-date by the editor of *The British Printer*, with the assistance of experts in all departments. 2 Vols. Demy 8vo. Pp. 448., 398. 1915. Raithby, Lawrence. 6s. each.

Stewart, J. *Compositor's Russian Primer.* Cr. 8vo. Pp. 40. 1917. Raithby, Lawrence. 2s. 6d.

Thorp, J. *Printing for Business: A Manual of Printing Practice in Non-Technical Idiom.* Demy 8vo. Pp. 180. 1919. John Hogg. 10s. 6d.

Wilkinson, W. T. *Photo-Mechanical Processes: Photo-Zincography, Photo-Lithography, Photogravure and Collotype.* 3rd edn. Cr. 8vo. Pp. 216. n.d. Raithby, Lawrence, 4s.

Williams, H. W. *Greek in Type. An Essay for Printers, designed to provide practical acquaintance with the Language for purposes of printing.* 8vo. Pp. 32. n.d. Raithby, Lawrence. 1s.

ii. BOOKS AND BOOKBINDING.

Adam, P. *Practical Bookbinding.* Translated from the German. Cr. 8vo. Pp. 180. 1903. Scott, Greenwood. 6s.

Aldis, H. G. *The Printed Book.* Roy. 16mo. Pp. 140. 1916. Cambridge University Press. 3s. 6d.

Cockereil, D. *Bookbinding and the Care of Books.* 4th edn. Cr. 8vo. Pp. 352. 1920. Pitman. 10s. 6d.

Coutts, H. T., and Stephen, G. A. *Manual of Library Bookbinding.* Cr. 8vo. Pp. 264. 1911. Grafton. 10s. 6d.

Crane, W. *The Decorative Illustration of Books.* 5th edn. Cr. 8vo. Pp. 350. 1916. Bell. 8s. 6d.

Davenport, C. *The Book: Its History and Development.* Ex. Cr. 8vo. Pp. 264. 1907. Constable. 7s. 6d.

Horne, H. P. *The Binding of Books.* 2nd edn. 8vo. Pp. 245. 1915. Kegan Paul. 5s.

Philip, A. J. *The Business of Book-binding.* Cr. 8vo. Pp. 223. 1912. Grafton. 7s. 6d.

Plomer, H. R. *Short History of English Printing, 1476-1900.* 2nd edn. 8vo. Pp. 288. 1917. Kegan Paul. 5s.

Pollard, A. W. *Early Illustrated Books.* 2nd edn. 8vo. Pp. 262. 1917. Kegan Paul. 5s.

Zaehnsdorf, J. W. *Bookbinding.* 9th edn. Small post 8vo. Pp. 190. 1920. Bell. 7s. 6d.

iii. PAPER AND STATIONERY.

Bromley, H. A. *Outlines of Stationery Testing.* Cr. 8vo. Pp. 74. 1913. Griffin. 3s.

Dawe, E. A. *Paper and Its Uses. With 35 Samples of Paper.* 2nd edn. Cr. 8vo. Pp. 160. 1919. Crosby Lockwood. 8s. 6d.

Graham, V. (compiled by). *Printers' and Stationers' Ready Reckoner and Compendium.* Cr. 8vo. Pp. 112. 1904. Scott, Greenwood. 4s. 6d.

Maddox, H. A. *What a Stationer and Printer Ought to know About Paper.* 2nd edn. Cr. 8vo. 1919. Raithby, Lawrence. 1s. 6d.

iv. MISCELLANEOUS.

Brown, J. D. *A Manual of Practical Bibliography.* Fcap. 8vo. Pp. 175. Routledge. 3s.

Cannons, H. G. T. *A Bibliography of Industrial Efficiency and Factory Management: Classified and Annotated. (Books, Magazine Articles, etc.)* 4to. Pp. 167. 1920. Routledge. 10s. 6d.

Educational Expert, An. *Manuscript Writing and Lettering. A Handbook showing the Historical Development and Practical Application to Modern Handwriting of several Manuscript Styles derived from Ancient Roman Letters.* Fcap. 4to. Pp. 178. 1918. Pitman. 5s.

Hope, Sir W.H.St. J. Heraldry for Craftsmen and Designers. Cr. 8vo. Pp. 496. 1913. Pitman. 10s. 6d.

Johnston, E. Writing and Illuminating and Lettering. 10th edn. Cr. 8vo. Pp. 512. 1918. Pitman. 8s. 6d.

Johnston, E. Manuscript and Inscription Letters for Schools and Classes and the Use of Craftsmen. 16 Plates with full Notes and Descriptions. 3rd edn. Portfolio. 1920. Pitman. 7s. 6d.

Lascelles, T. W. Engraving. Cr. 8vo. Pp. 128. 1920. Pitman. 3s.

PHOTOGRAPHY, PHOTO-MICRO- GRAPHY, CINEMATOGRAPHY.

1. PHOTOGRAPHY.

Abney, Sir W. de W. A Treatise on Photography. 10th edn. Cr. 8vo. Pp. 444. 1918. Longmans. 8s.

— **Instantaneous Photography.** Cr. 8vo. Pp. 95. 1896. Sampson, Low. 1s.

— **Negative Making.** Post 8vo. Pp. 113. 1893. Sampson, Low. 1s.

— **and Clark, L.** Platinotype Printing. Post 8vo. Pp. 175. 1895. Sampson, Low. 2s. 6d.

Bayley, R. C. Photography Made Easy. Cr. 8vo. Pp. 264. 1920. Iliffe. 3s.

— **Photographic Enlarging.** 3rd edn. Cr. 8vo. Pp. 170. 1920. Iliffe. 3s. 6d.

— **The Complete Photographer.** 6th edn. Demy 8vo. Pp. 432. 1920. Methuen. 15s.

Bedford, E. J. Nature Photography for Beginners. Sq. Demy 8vo. Pp. 168. n.d. Dent. 9s. 6d.

Beeson, F. T., and Williams, A. Amateur Photography. Pott 8vo. Pp. 288. 1920. Nelson. 2s. 6d.

Bennett, H. W. Intensification and Reduction. Cr. 8vo. Pp. 124. 1904. Iliffe. 1s. 6d.

Brown, G. E., and Mackie, A. Photographic Copyright. Cr. 8vo. Pp. 90. 1912. Henry Greenwood. 1s.

Clark, L. Platinum Toning. Cr. 8vo. Pp. 96. Iliffe. 1s. 6d.

Cole, R. S. A Treatise on Photographic Optics. 2nd edn. Pp. 330. n.d. Sampson, Low. 2s. 6d.

Crabtree, J. H. Camera Work for Pleasure, Utility and Profit. Cr. 8vo. Pp. 142. 1920. Routledge. 1s. 6d.

Davis, C. F. L. Telephotography. 2nd edn. by L. Booth. Cr. 8vo. Pp. 128. 1921. Routledge. 8s. 6d.

D'Helicourt, R. Photographic Enamels. Cr. 8vo. Pp. 94. 1905. Iliffe. 1s. 6d.

Ferguson, W. B. (edited by). The Photographic Researches of Ferdinand Hurter and Vero C. Drifffield. Being a Reprint of their Published Papers, together with a History of their Early Work and a Bibliography of Later Work on the same subject. Quarto. Pp. 386. 1920. Royal Photographic Society of Great Britain. 25s.

Gamble, W. Photography and Its Applications. Cr. 8vo. Pp. 144. 1920. Pitman. 8s.

Garrett, A. E., and Vogel, H. The Advance of Photography, its History and Modern Applications. 8vo. Pp. 395. 1911. Kegan Paul. 12s. 6d.

Gower, H. D., Jast, L. S., and Topley, W. W. The Camera as Historian. Cr. 8vo. Pp. 259. 1916. Sampson, Low. 6s.

Harris, G. T. Practical Slide Making. Cr. 8vo. Pp. 131. 1904. Iliffe. 1s. 6d.

Hewitt, C. Practical Professional Photography. 2 Vols. Cr. 8vo. Pp. 126., 114. 1902-4. Iliffe. 1s. 6d. each.

Hibbert, L. J. A Manual of Photographic Technique: describing Apparatus, Materials, and the details of Procedure. Pott 8vo. Pp. 128. 1921. Pitman. 2s. 6d.

Hughes, A. L. Photo-Electricity. Demy 8vo. Pp. 152. 1914. Cambridge University Press. 8s.

Photography, Photo-Micrography, Cinematography.

- Johnson, G. L.** Photography in Colours. 3rd edn. Cr. 8vo. Pp. 316. 1919. Routledge. 6s.
- Johnson, R.** The Art of Retouching Negatives and Finishing and Colouring Photographs. 10th edn. Revised by T. S. Brace and A. Braithwaite. Demy 8vo. Pp. 100. 1920. Marion. 5s.
- Jones, C.** Photography of To-Day. Cr. 8vo. Pp. 342. 1920. Seeley. 7s. 6d.
- Lambert, F. C.** Lantern Slide Making. Cr. 8vo. Pp. 141. Iliffe. 1s. 6d.
- Lummer, O.** Contributions to Photographic Optics. Translated by S. P. Thompson. 8vo. Pp. 148. 1900. Macmillan. 7s. 6d.
- Marriage, E.** Elementary Telephotography. Demy 8vo. Pp. 117. 1901. Iliffe. 3s. 6d.
- Meldola, R.** The Chemistry of Photography. Cr. 8vo. Pp. 398. 1913. Macmillan. 7s.
- Mortimer, F. J.** Magnesium Light Photography. Cr. 8vo. Pp. 96. Iliffe. 1s. 6d.
- and Coulthurst, S. L. The Oil and Bromoil Processes. 2nd edn. Cr. 8vo. Pp. 99. 1912. Iliffe. 1s. 6d.
- Norton, G., and Bonner, J.** The Lantern and How to Use it. Cr. 8vo. Pp. 143. Iliffe. 1s. 6d.
- Orford, H.** Lens Work for Amateurs. 4th edn. Cr. 8vo. Pp. 231. 1919. Pitman. 3s. 6d.
- Penlake, R.** How to Colour Photographs and Lantern Slides. Cr. 8vo. Pp. 177. Iliffe. 1s. 6d.
- Pigg, J. I.** The Photographic Instructor. Revised by P. R. Salmon. Cr. 8vo. Pp. 260. 1921. Chapman and Hall. 3s. 6d.
- Piper, C. W.** A First Book of the Lens. Cr. 8vo. Pp. 170. 1901. Iliffe. 3s. 6d.
- Robinson, H. P.** The Studio and What to do in it. 3rd edn. Cr. 8vo. Pp. 166. 1905. Iliffe. 3s. 6d.
- Smith, R. E. B.** Toning Bromide Prints. Cr. 8vo. Pp. 104. 1904. Iliffe. 1s. 6d.
- Sparrow, F. W.** The Principles of Simple Photography. Cr. 8vo. Pp. 130. 1902. Iliffe. 1s. 6d.
- Taylor, J. T.** The Optics of Photography and Photographic Lenses. 3rd edn. with a new chapter on Anastigmatic Lenses, by P. F. Everitt. Cr. 8vo. Pp. 270. 1904. Pitman. 4s.
- Taylor, W.** Photographic Chemicals and How to Make Them. Cr. 8vo. Pp. 107. Iliffe. 1s. 6d.
- Townsend, C. F.** Chemistry for Photographers. 5th edn. Cr. 8vo. Pp. 129. Iliffe. 1s. 6d.
- Vogel, E.** Practical Pocket-book of Photography: A Short Guide to the Practice of all the usual Photographic Processes for Professionals and Amateurs. 2nd edn. 12mo. Pp. 223. 1903. Allen and Unwin. 2s. 6d.
- Wall, E. J.** The Dictionary of Photography and Reference Book for Amateurs and Professional Photographers. 10th edn. Edited by F. J. Mortimer. Cr. 8vo. Pp. 696. 1920. Iliffe. 12s. 6d.
- Carbon Printing. Cr. 8vo. Pp. 104. Iliffe. 1s. 6d.
- Warren, E. J.** The Platinotype Process. Cr. 8vo. Pp. 84. Iliffe. 1s. 6d.
- Watkins, A.** Photography: its Principles and Applications. 2nd edn. Ex. Cr. 8vo. Pp. 349. 1920. Constable. 12s. 6d.
- Wheeler, O.** A Primer of Photography. Cr. 8vo. Pp. 210. 1910. Methuen. 3s. 6d.

ii. PHOTO-MICROGRAPHY.

- Bousfield, E. C.** Guide to the Science of Photo-Micrography. 2nd edn. 8vo. Pp. 174. 1892. Churchill. 6s.
- Duncan, F. M.** First Steps in Photo-Micrography. Cr. 8vo. Pp. 104. Iliffe. 1s. 6d.

Photography, Photo-Micrography, Cinematography.

- Hind, H. L., and Randles, W. B.** Handbook of Photo-Micrography. 8vo. Pp. 304. Routledge. 8s. 6d.
- Pringle, A.** Practical Photo-Micrography. 3rd edn. Cr. 8vo. Pp. 176. 1902. Iliffe. 3s. 6d.
- Spitta, E. J.** Photomicrography. Demy 4to. Pp. 163. 1899. Scientific Press. 15s.
- West, G.** The Practical Principles of Plain Photo-Micrography. Cr. 4to. Pp. 159. 1916. Author: University College, Dundee. 4s. 6d.
- Donaldson, L.** Cinematography for Amateurs. Cr. 8vo. Pp. 94. Iliffe. 1s. 6d.
- Foster, R. B.** Hopwood's Living Pictures. Their History, Photo-Production, and Practical Working. 2nd edn. Demy 8vo. Pp. 387. 1915. Hatton Press. 6s.
- Ibbetson, W. S.** The Kinema Operators' Handbook; Theory and Practice. Cr. 8vo. Pp. 160. 1921. Spon. 4s. 6d.
- Jones, B. E.** (edited by). The Cinematograph Book. Large Cr. 8vo. Pp. 224. 1919. Cassell. 4s.
- Talbot, F. A.** Practical Cinematography. Cr. 8vo. Pp. 274. 1918. Heinemann. 3s. 6d.
- iii. CINEMATOGRAPHY.**
- Cinema, The.** Its Present Position and Future Possibilities: being the Report and chief evidence taken by the Cinema Commission of Enquiry, instituted by The National Council of Public Morals. Demy 8vo. Pp. 362. 1917. Williams and Norgate. 12s. 6d.

SCIENTIFIC MANAGEMENT, ESTIMATING AND COSTING, etc.

i. SCIENTIFIC AND WORKS' MANAGEMENT.

Amar, J. *The Human Motor and the Scientific Foundations of Labour.* 8vo. Pp. 470. 1920. Routledge. 30s.

Batey, J. *The Science of Works' Management.* Cr. 8vo. Pp. 232. 1914. Scott, Greenwood. 5s.

Burton, F. G. *The Commercial Management of Engineering Works.* 2nd edn. Demy 8vo. Pp. 448. 1911. Scientific Pub. Co. 15s.

Elbourne, E. T. *Factory Administration and Cost Accounts. A Reference Book of the Principles and Practice of Industrial Administration and Costing for Present Day Requirements.* 3rd edn. Roy. 8vo. Pp. 832. 1921. Longmans. 45s.

— *The Management Problem.* Cr. 8vo. Pp. 153. 1920. Library Press. 4s. 6d.

Gilbreth, F. *Motion-Study for the Handicapped: with 73 Photographs, presenting the author's latest inventions in fatigue-saving, fatigue-registering, etc.* Cr. 8vo. Pp. 173. 1920. Routledge. 8s. 6d.

Hutchins, B. L., and Harrison, A. *History of Factory Legislation.* 2nd edn. Demy 8vo. Pp. 314. 1911. King. 7s. 6d.

Hutton, J. E. *Welfare and Housing. A Practical Record of War-Time Management.* Cr. 8vo. Pp. 200. 1918. Longmans. 5s.

McKillop, M., and A. D. *Efficiency Methods: an Introduction to Scientific Management.* 2nd imp. Cr. 8vo. Pp. 225. 1920. Routledge. 5s.

Wilson, R. M. *The Care of Human Machinery.* Cr. 8vo. Pp. 250. 1921. Frowde and Hodder. 10s. 6d.

ii. INDUSTRIAL ORGANISATION.

Amar, J. *The Physiology of Industrial Organisation and the Re-employment of the Disabled.* Edited with Notes and Introduction by A. F. S. Kent. Super Roy. 8vo. Pp. 396. 1918. Library Press. 30s.

Cowee, G. A. *Practical Safety Methods and Devices.* Roy. 8vo. Pp. 443. 1916. Routledge. 12s. 6d.

Fisher, B. *Industrial Loyalty: its Value, Creation, Preservation.* Cr. 8vo. Pp. 79. 1918. Routledge. 2s. 6d.

Fleming, A. P. M., and Pearce, J. G. *The Principles of Apprentice Training, with special reference to the Engineering Industry.* Cr. 8vo. Pp. 216. 1916. Longmans. 4s. 6d.

Freeman, A. *Boy Life and Labour: The Manufacture of Inefficiency.* Demy 8vo. Pp. 268. 1914. King. 4s.

Hamilton, C. *Technical School Organisation and Teaching.* 8vo. Pp. 190. 1913. Routledge. 3s.

Hazell, W. H. *Office Organisation for Printers.* Demy 8vo. Pp. 109. 1919. Raithby, Lawrence. 6s.

Herford, R. O., Hildage, H. T., and Jenkins, H. G. *Outlines of Industrial Administration based on a Course of Lectures given at Sheffield University.* Demy 8vo. Pp. 132. 1920. Pitman. 6s.

Scientific Management, Estimating and Costing.

Ioteyko, J. *The Science of Labour and its Organisation*. Cr. 8vo. Pp. 207. 1919. Routledge. 3s. 6d.

Jackman, W. T. *The Development of Transportation in Modern England*. 2 Vols. Roy. 8vo. Pp. 476.. 368. 1916. Cambridge University Press. 24s.

Lawson, F. M. *Industrial Control. The Application to Industry of Direction, Control and Light*. Demy 8vo. Pp. 144. 1920. Pitman. 8s. 6d.

Lee, J. *Management. A Study of Industrial Organisation*. Demy 8vo. Pp. 135. 1921. Pitman. 5s.

Proud, E. D. *Welfare Work: Employers' Experiments for Improving Working Conditions in Factories*. 3rd edn. Demy 8vo. Pp. 388. 1918. Bell. 10s.

Souster, E. G. W. *The Design of Factory and Industrial Buildings. With Chapters on Welfare Work and Industrial Research Departments*. Demy 8vo. Pp. 166. 1919. Scott, Greenwood. 10s. 6d.

Spencer, H. *The Commercial Organisation of Engineering Factories*. 8vo. Pp. 221. 1914. Spon. 12s. 6d.

Williamson, J. G. *Counting House and Factory Organisation. A Practical Manual of Modern Methods Applied to the Counting House and Factory*. Demy 8vo. Pp. 180. N.D. Pitman. 6s.

Wright, H. T. *Organisation as applied to Industrial Problems*. 8vo. Pp. 287. 1920. Griffin. 21s.

iii. ESTIMATING AND COSTING.

Burton, F. G. *Engineering Estimating and Cost Accounts*. 2nd edn. Cr. 8vo. Pp. 184. 1900. Technical Pub. Co. 4s.

Elbourne, E. T. *The Costing Problem*. Cr. 8vo. Pp. 145. 1919. Library Press. 4s. 6d.

The Federation Printers' Cost-Finding System and Accountancy Systems. Demy 8vo. 1919. Raithby, Lawrence. 10s.

Lunt, H. J. *Manual of Cost Accounts*. Demy 8vo. Pp. 152. 1920. Pitman. 6s.

Matheson, E. *The Depreciation of Factories, Mining, Municipal and Industrial Undertakings, and their Valuation*. 4th edn. 8vo. Pp. 230. 1910. Spon. 12s. 6d.

Newman, E. W. *Theory and Practice of Costing*. Demy 8vo. Pp. 202. 1921. Pitman. 10s. 6d.

Pearn, S., and F. *Workshop Costs*. 2nd edn. Folio. Pp. 34 and 42 Forms. 1905. Technical Pub. Co. 15s.

Ridgway, A. C. *Cost Accounts in Principle and Practice*. Demy 8vo. Pp. 120. N.D. Pitman. 5s.

Smith, D., and Pickworth, P. C. N. *Engineers' Costs and Economical Workshop Production*. 2nd edn. Demy 8vo. Pp. 248. 1919. Emmott. 7s. 6d.

Smith, T. S. *Concise Costing for Housing*. Folio. Pp. 54. 1920. Technical Journals, Ltd. 5s.

DICTIONARIES OF TECHNICAL TERMS IN ENGLISH AND OTHER LANGUAGES.

- Fletcher, J. J.** A Pocket Glossary of English-French, French-English Technical Terms. 4th edn. Pocket size. Pp. 200. 1917. Crosby Lockwood. 2s.
- Garcia, A.** Dictionary of Railway Terms: Spanish-English, English-Spanish. Demy 8vo. Pp. 356. 1912. Constable. 12s. 6d.
- Halse, E.** A Dictionary of Spanish, Spanish-American, Portuguese, and Portuguese-American Mining, Metallurgical, and Allied Terms, with English-Spanish-Portuguese Supplement. 2nd edn. Cr. 8vo. Pp. 454. 1914. Griffin. 12s. 6d.
- Hewlett, G.** English-Spanish and Spanish-English Sea Terms and Phrases. Pocket size. Pp. 368. 1907. Griffin. 4s.
- Hodgson, E. S.** Tri-Lingual Artillery Dictionary. 3 Vols. Pocket size. 1918. Vol. 1. English-French-Italian. Pp. 100. Vol. 2. French-Italian-English. Pp. 115. Vol. 3. Italian-French-English. Griffin. 5s. each.
- Horner, J. G., and Holtzmann, O.** A Pocket Glossary of English-German, German-English Technical Terms. Pocket size. Pp. 300. 1913. Crosby Lockwood. 3s. 6d.
- Huelin, D. C.** Technological Dictionary in the English, Spanish, German and French Languages, containing Technical Terms and Locutions employed in Arts, Trades, and Industry in General, Military, and Naval Terms. 4 Vols. Cr. 8vo. Vol. 1. English-Spanish-German-French. Pp. 609. 1906. Vol. 2. German-English-French-Spanish. Pp. 720. 1908. Vol. 3. French - German - Spanish-English. In preparation. Vol. 4. Spanish-French-English-German. Pp. 750. 1910. Spon. 15s. each.
- Jackson, W.** Dictionary of English and Spanish Technical and Commercial Terms used principally in the Iron, Steel, Hardware and Engineering Trades. English-Spanish, Spanish-English. 16mo. Pp. 164. 1911. Spon. 3s.
- Lucas, F.** English-French and French-English Dictionary of the Motor Car, Cycle, and Boat. Cr. 8vo. Pp. 171. 1915. Spon. 3s.
- Meycliar, L.** English-Russian and Russian-English Engineering Dictionary. Embracing Terms relating to Mechanical and Marine Engineering and Naval Architecture. 16mo. Pp. 100. 1909. Spon. 3s.
- Monteverde, R. D.** A Pocket Glossary of English-Spanish, Spanish-English Technical Terms. 2nd edn. Pocket size. Pp. 309. 1917. Crosby Lockwood. 3s. 6d.
- Purington, C. W., and Toderovich, G.** Russian-English, English-Russian Mining Terms and Relative Technical Words. Pocket Size. Pp. 128. 1920. Griffin. 7s. 6d.
- Serrailier, L.** A Railway Technical Vocabulary. French, English, and American Technical Expressions relating to Railway Management. Cr. 8vo. Pp. 220. 1897. Pitman. 7s. 6d.

Dictionaries of Technical Terms.

- Slater, J. A.** Dictionary of the World's Commercial Products: with French, German, and Spanish equivalents for the Names of the Products. 2nd edn. Demy 8vo. Pp. 165. n.p. Pitman. 3s. 6d.
- Steenbeck, W. H.** Engineers' and Erectors' Pocket Dictionary. English-German-Dutch. Pitman. 2s. 6d.
- Topham, J.** French Technical Words and Phrases. An English-French and French-English Dictionary. 3rd edn. Pocket size. Pp. 320. 1919. Marlborough. 5s.
- Webber, E.** International Technical Dictionary in Four Languages. English - Italian - French - German. Fcap. 16mo. Pp. 921. 1917. Pitman. 15s.

LIST OF PUBLISHERS.

*The Publishers denoted by the asterisk have kindly contributed, or undertaken to contribute, towards the cost of this Catalogue on the basis of payment according to the number of Titles of their books included.

- Aeroplane and General Publishing Co.**, 61, Carey Street, W.C.2.
- Allen and Unwin, Ltd.**, 40, Museum Street, W.C.1.
- ***Allman and Son**, 17, Creechurch Lane, E.C.3.
- ***Arnold (Edward)**, 41 and 43, Maddox Street, W.1.
- ***Arrowsmith (J.W.)**, Ltd., 11, Quay Street, Bristol.
- Baillière, Tindall and Cox**, 8, Henrietta Street, Covent Garden, W.C.2.
- Bale and Danielsson, Ltd.**, 83-91, Great Titchfield Street, W.1.
- ***Batsford (B. T.)**, Ltd., 94, High Holborn, W.C.1.
- ***Bell (Geo.) and Sons, Ltd.**, 6, Portugal Street, W.C.2.
- Benn Brothers, Ltd.**, 8, Bouverie Street, E.C.4.
- ***Black (A. and C.)**, Ltd., 4-6, Soho Square, W.1.
- Blackie and Son, Ltd.**, 50, Old Bailey, E.C.4.
- ***Blackwood (Wm.)**, and Sons, 36, Paternoster Row, E.C.4.
- British Bee Journal**, 23, Bedford Street, W.C.2.
- ***Brown (James) and Son**, 52-58, Darnley Street, Pollokshields, Glasgow.
- ***Bryce (W.)**, 54, Lothian Street, Edinburgh.
- Burrow (E. J.)**, and Co., Ltd., 89, Kingsway, W.C.2.
- ***Cambridge University Press**, St. Dunstan's House, 133-137, Fetter Lane, E.C.4.
- Cassell and Co., Ltd.**, La Belle Sauvage, Ludgate Hill, E.C.4.
- ***Cassier (Louis) Co., Ltd.**, Bedford Street, W.C.2.
- ***Chambers (W. and R.)**, Ltd., 38, Soho Square, W.1.
- ***Chapman and Hall, Ltd.**, 11, Henrietta Street, Covent Garden, W.C.2.
- ***Christophers**, 22, Berners Street, W.1.
- ***Churchill (J. and A.)**, 7, Great Marlborough Street, W.1.
- ***Clowes (W.) and Sons, Ltd.**, 94, Jermyn Street, S.W.1.
- ***Constable and Co., Ltd.**, 10-12, Orange Street, Leicester Square, W.C.2.
- ***"Country Life" Office**, 17-21, Tavistock Street, Covent Garden, W.C.2.
- ***Crosby Lockwood**, 7, Stationer's Hall Court, Ludgate Hill, E.C.4.
- Denny (A. and F.)**, 147, Strand, W.C.2.
- ***Dent (J. M.)**, and Sons, Ltd., 10-13, Bedford Street, W.C.2.
- ***Duckworth and Co.**, 3, Henrietta Street, Covent Garden, W.C.2.
- ***Emmott and Co., Ltd.**, 20, Bedford Street, W.C.2.
- Faraday Society**, 10, Essex Street, Strand, W.C.2.
- Fisher, Unwin, Ltd.**, 1, Adelphi Terrace, W.C.2.
- ***Frowde and Hodder**, The "Lancet" Building, 1 and 2, Bedford Street, W.C.2.
- ***Gieves Publishing Co., Ltd.**, 13, Paternoster Row, E.C.4.
- Grafton and Co.**, 8, Coptic Street, Bloomsbury, W.C.1.
- Green (W.) and Son., Ltd.**, 2 and 4, St. Giles Street, Edinburgh.
- Griffin (Charles) and Co., Ltd.**, 12, Exeter Street, Strand, W.C.2.

List of Publishers.

- *Gurney and Jackson, 33, Paternoster Row, E.C.4.
- Harper Brothers, 45, Albemarle Street, W.1.
- *Harrap (G.) and Co., Ltd., 2 and 3, Portsmouth Street, Kingsway, W.C.2.
- *Hatton Press, 123, Fleet Street, E.C.4.
- *Heffer (W.) and Sons., Ltd., 4, Petty Cury, Cambridge.
- *Heinemann (W.), 20 and 21, Bedford Street, W.C.2.
- *Heywood (John), Ltd., 20 and 22, St. Bride Street, E.C.4.
- His Majesty's Stationery Office, Imperial House, 19, Kingsway, W.C.2.
- Hodder and Stoughton, St. Paul's House, Warwick Square, E.C.4.
- Hogg (John), 13, Paternoster Row, E.C.4.
- *Iliffe and Sons., Ltd., 20, Tudor Street, E.C.4.
- Imray, Laurie, Ltd., 156, Minories, E.1.
- *Jack (T. C. and E. C.), Ltd., 35, Paternoster Row, E.C.4.
- *Jarrolds, Ltd., 10 and 11, Warwick Lane, E.C.4.
- *Johnston (W. and A. K.) Ltd., Edina Works, Edinburgh.
- *Kegan, Paul and Co., Ltd., 68-74, Carter Lane, E.C.4.
- *Kidd (Wm.) and Sons, 7, Whitehall Street, Dundee.
- Kimpton (Henry), 263, High Holborn, W.C.1.
- *King (F.) and Sons, Halifax.
- King (P. S.) and Son, Ltd., 2 and 4, Great Smith Street, Westminster, S.W.1.
- *Lane (John), Vigo Street, W.1.
- *Lewis (H. K.) and Co., Ltd., 136, Gower Street, W.C.1.
- *Library Press, Ltd., 26, Portugal Street, W.C.2.
- *Livingstone (E. and S.), 17, Teviot Place, Edinburgh.
- *Locomotive Publishing Co., Ltd., 3, Amen Corner, E.C.4.
- *Longmans, Green and Co., 38-41, Paternoster Row, E.C.4.
- Lovell, Reeve and Co., Ltd., 6, Henrietta Street, Covent Garden, W.C.2.
- *Macdonald and Evans, 29, Essex Street, W.C.2.
- *Macdonald and Martin, 6, Essex Street, W.C.2.
- *Macmillan and Co., Ltd., 10-15, St. Martin's Street, Leicester Square, W.C.2.
- *Marlborough (E.) and Co., 51, Old Bailey, E.C.4.
- Marsden, 10-11, Fetter Lane, E.C.4.
- *M'Caw, Stevenson and Orr, Ltd., Belfast.
- *Melrose (A.), Ltd., 3, York Street, Covent Garden, W.C.2.
- *Methuen and Co., Ltd., 36, Essex Street, Strand, W.C.2.
- *Munro (Jas.) and Co., Ltd., 60, Brown Street, Glasgow.
- *Murby (Thomas) and Co., 1, Fleet Lane, E.C.4.
- *Murray (John), 50a, Albemarle Street, W.1.
- *Nelson (T.) and Sons, Ltd., 35, Paternoster Row, E.C.4.
- *Newnes (G.), Ltd., 8-11, Southampton Street, Strand, W.C.2.
- *Nisbet (J.) and Co., Ltd., 22, Berners Street, W.1.
- *Oliver and Boyd, Tweeddale Court, High Street, Edinburgh.
- *Oxford University Press (including Clarendon Press), Amen Corner, E.C.4.
- Pearson (C. A.), Ltd., 16-18, Henrietta Street, Covent Garden, W.C.2.
- *Philip (Geo.) and Son., Ltd., 32, Fleet Street, E.C.4.
- *Pitman (Sir Isaac) and Sons, Ltd., 39 and 41, Parker Street, W.C.2.
- *Raggett and Co., 30, Red Lion Square, W.C.1.
- *Raithby, Lawrence and Co., Ltd., 231 and 232, Strand, W.C.2.
- *Reed (Thomas), and Co., Ltd., 184, High Street West, Sunderland.

List of Publishers

- *Rentell (S) and Co., Ltd., 36-39, Maiden Lane, W.C.2.
- *Rider (Wm.) and Son, Ltd., 8-11, Paternoster Row, E.C.4.
- Rivingtons, 34, King Street, Covent Garden, W.C.2.
- *Rodger (Norman), 2, St. Dunstan's Hill, E.C.3.
- *Routledge (G.) and Sons, Ltd., 68-74, Carter Lane, E.C.4.
- *St. Catherine Press, Stamford Street, S.E.1.
- *Sampson, Low and Co., Ltd., 100, Southwark Street, S.E.1.
- *Sanitary Publishing Co., Ltd., 8, Breems Buildings, Chancery Lane, E.C.4.
- *Scientific Press, Ltd., 28 and 29, Southampton Street, W.C.2.
- *Scientific Publishing Co., 53, New Bailey Street, Salford, Manchester.
- *Scott, Greenwood and Son, 8, Broadway, Ludgate Hill, E.C.4.
- *Scott Publishing Co., Ltd., 1, Paternoster Buildings, Paternoster Square, E.C.4.
- Seeley, Service and Co., Ltd., 38, Great Russell Street, W.C.1.
- Sherratt and Hughes, 27, St. Ann Street, Manchester.
- Simpkin, Marshall and Co., Ltd., 4, Stationers' Hall Court, E.C.4.
- *S.P.C.K., 6, St. Martin's Place, W.C.2.
- *Spon (E. and F. N.), Ltd., 57, Haymarket, S.W.1.
- Stanford (E.), Ltd., 12-14, Long Acre, W.C.2.
- Swarthmore Press, 40, Museum Street, W.C.1.
- Technical Bookshop, 723, Salisbury House, E.C.2.
- Technical Publishing Co., Ltd., 1, Gough Square, E.C.4.
- *Temple Press, Ltd., 7-15, Rosebery Avenue, E.C.1.
- *Thacker (W.) and Co., 2, Creed Lane, Ludgate Hill, E.C.4.
- *Thin (James), 54-56, South Bridge, Edinburgh.
- *Trade Papers Publishing Co., Ltd. 329, High Holborn, W.C.1.
- *Transport, Ltd., Queen Anne's Chambers, Westminster, S.W.1.
- *University Tutorial Press, Ltd., 25, High Street, New Oxford Street, W.C.2.
- University of London Press, Ltd., St. Paul's House, Warwick Square, E.C.4.
- *Vinton and Co., Ltd., 8, Breems Buildings, Chancery Lane, E.C.4.
- Warne (F.) and Co., 1-4, Bedford Court, Bedford Street, W.C.2.
- *Watts and Co., 17, Johnson's Court, Fleet Street, E.C.4.
- *Williams and Norgate, 14, Henrietta Street, Covent Garden, W.C.2.
- *Wireless Press, Ltd., 12 and 13, Henrietta Street, Covent Garden, W.C.2.
- *Witherby and Co., 326, High Holborn, W.C.1.
- *Wright (John) and Sons, Ltd., Stonebridge, Bristol.

INDEX OF AUTHORS, COLLABORATORS AND TRANSLATORS.

- Aarons, S. J. 275, 276
 Abadie, G. 265
 Abady, J. 146
 Abbey, G. 185
 Abbott, E. 8
 — P. 34, 36, 37
 — T. K. 182
 Abderhalden, E. 229
 Abegg, R. 122
 Abel, R. 229
 Abercromby, R. 162
 Abney, Sir W. de W. 102, 307
 Abrahams, A. 256
 Abrami, P. 245
 Ackworth, A. T. 65
 Acorn. 208
 Acton, F. H. 202
 Adam, C. 271
 — J. 6, 255
 — Mrs. J. 6
 — P. 305
 Adami, J. G. 193, 239, 240
 Adams, H. 34, 48, 49, 50, 61, 66, 72
 — H. C. 57
 — J. E. 258
 — P. E. H. 269
 — W. P. 79
 Adamson, H. G. 284
 — J. W. 4
 — R. 6, 13
 Adcock, K. J. 148
 Addis, A. W. C. 52
 Addison, C. 221
 Addyman, F. T. 104, 213
 Adiassewich, A. 45
 Adie, R. H. 180, 213
 Adlam, G. H. J. 150
 Adler, H. 187
 Agar, W. E. 196, 228
 Agnew, W. A. 117
 Ahrons, E. L. 83
 Aikman, C. M. 213
 Ainslie, D. 9, 11, 12, 13
 Ainsworth-Davis, J. R. 211, 212, 214, 215
 Aitchison, L. 156
 — R. S. 241
 Aitken, T. 52
 Akers, C. E. 142
 Albee, E. 4
 Alemaeon. 6
 Alecock, A. 248, 259
 — N. H. 225
 — R. A. 198
 Alderson, W. E. 282
 Aldis, H. G. 305
 — W. S. 100
 Aldous, J. C. P. 96
 Aldridge, H. A. 68
 Alexander, F. M. 193, 197
 — J. 45, 242
 — J. H. 109
 — S. 8
 — T. 42
 — W. 49
 Alford, C. J. 171
 Aliotta, A. 1
 Allan, A. P. 290
 — F. J. 57, 232
 Allanach, W. 106
 Allbutt, Sir T. C. 1, 231, 241, 254, 270
 Allen, 132
 — A. F. 136
 — A. W. 151, 154, 174
 — C. C. 72
 — C. E. 83
 — C. J. 52
 — G. T. 52
 — H. 87, 153
 — H. S. 96
 — J. P. 61
 — R. G. 114
 — R. W. 255, 288
 Alleyne, S. F. 8
 Allingham, H. W. 261
 — W. 162, 181
 Allison, A. 237, 238
 Allman, G. J. 21
 Allmand, A. J. 128
 Allsop, F. C. 115, 116, 117, 119
 — R. O. 57
 Alport, A. C. 245
 Amar, J. 310

. *Name Index.*

- Amedeo, M. R. 77
 Ami, H. M. 178
 Amos, P. A. 130
 — S. 1
 Anderson, D. E. 236
 — H. G. 255
 — Sir J. 43
 — J. W. 164
 — T. 167
 — Sir W. 81
 Andés, L. E. 139, 141, 148
 Andrew, R. C. 211
 Andrewes, Sir F. W. 229, 257, 262
 Andrews, E. R. 143
 — E. S. 27, 40, 42, 43, 44, 50, 66,
 67, 72, 81, 107
 — H. R. 277
 — S. T. G. 93
 — T. 21
 Angles, J. W. 33
 Anglin, S. 49
 Ansted, A. 181
 Appelt, A. 252
 Appleton, H. A. 141
 A. R. B. 52, 83
 Arber, A. 198
 — E. A. N. 170, 205
 Archbutt, L. 74
 Archer, R. L. 175
 Archibald, R. C. 34
 — R. D. 112
 Archimedes. 3, 22
 Aristotle. 6
 Arkwright, J. A. 245
 — J. P. 64
 Armand-Delille, P. 245
 Armitage, F. P. 122
 Armstead, H. W. 224
 Armstrong, F. F. 130
 — H. E. 1.
 — H. G. 245
 — S. F. 212
 — W. E. M. 288
 Arnall. 52
 Arnold, E. V. 6
 — H. T. 180
 — J. O. 156
 — R. B. 8
 Arrhenius, S. 134
 Arrol, Sir W. and Co. 49
 Arthur, D. 104
 Arup, P. S. 132
 Arvedson, J. 287
 Asch, D. 149
 — W. 149
 Ash, E. 251
 Ashby, A. W. 214
 Ashby, H. 225
 — H. T. 279
 Ashcroft, H. J. 64
 Ashdown, A. M. 294
 Ashenhurst, T. R. 300
 Ashford, C. E. 112
 Ashton, W. 169
 Askling, C. W. 87
 Askwith, E. H. 30, 32
 Assheton, R. 222, 223
 Aston, W. G. 80, 92
 Atack, F. W. 125, 147
 Atcherley, I. W. 49
 Atherton, W. H. 44, 70
 Atkins, E. A. 77
 — W. 119
 — W. R. G. 201
 Atkinson, E. H. De V. 23
 — G. F. 198
 — J. C. 192
 — S. B. 237
 Attwood, E. L. 70, 71
 Audley, J. A. 149
 Auerbach, S. 252
 Aughtie, H. 42, 74
 Auld, S. J. M. 133, 213
 Austen, E. E. 229, 287
 — Sir W. C. R. 153
 Austin, E. 117
 Avanzini. 92
 Avebury, Lord, 4, 167, 187, 197, 198,
 201
 Aveling, F. 8
 Avery, A. H. 113
 — M. 232
 "Avion." 92
 Axenfeld, T. 269
 Ayling, R. S. 63, 234
 Ayre, A. L. 70
 Ayrton, W. E. 109
 Babbage, C. 37
 Babinski, J. 252
 Back, I. 260
 Bacon, G. 91
 — R. 2, 3
 Badger, F. E. G. 53
 Badham, M. D. 204
 Bagnall, J. E. 204
 Bahr, P. H. 236
 Bailey, G. C. 91
 — G. H. 122, 133
 Baillie, J. B. 10
 — T. C. 109
 Bain, A. 13, 15
 Bainbridge, F. A. 225, 227
 Baines, A. E. 17, 201, 227
 Bairstow, L. 91, 92

Name Index.

- Baker, G. S. 70
 — H. F. 21, 23
 — J. G. 205
 — J. L. 137
 — R. T. 205
 — T. 50
 — T. T. 104, 119, 132
 — W. M. 25, 28, 30, 32, 36, 40
 Bald, C. 218
 Baldrey, F. S. H. 296
 Baldwin, J. M. 9, 15
 Bale, M. P. 56, 73, 77, 84, 87
 Bales, T. 62
 Balfour, A. 258
 — F. M. 222
 — I. B. 170, 199, 201, 202, 203, 204
 Balfour-Browne, F. 187
 Ball, Sir C. B. 257
 — J. D. W. 66
 — Sir R. S. 39, 40, 56, 159, 160, 167
 — W. P. 193
 — W. V. 50
 — W. W. R. 21, 22
 Ballance, Sir C. A. 251, 265
 Ballantyne, A. J. 254, 269
 — J. W. 222, 241, 275, 276
 Ballard, E. F. 253
 — F. 66
 — P. B. 15, 17
 — W. E. 62
 Ballet, G. 252
 Ballin, M. J. 274
 Balls, W. L. 218, 297
 Balsillie, D. 9
 Baly, E. C. C. 127
 Bamford, H. 44
 Bandelier, B. 249, 288
 Bangay, R. D. 120
 Banham, G. A. 296
 Banister, J. B. 277
 Banks, H. S. 264
 Bannatyne, G. A. 249
 Barber, T. W. 49, 72
 Barbour, A. H. F. 276, 277
 — W. 150
 Barclay, A. E. 105
 — H. C. 225
 — R. M. 253, 277
 — W. R. 118
 Barcroft, D. M. 265
 — J. 226, 241
 Bardswell, N. D. 249, 288
 Barger, G. 132
 Barham, G. B. 116
 Barker, A. 218
 Barker, A. E. 258
 — A. F. 297, 300, 301
 — A. H. 28, 47, 142
 — Sir D. W. 181, 182
 — E. R. 114
 Barlow, 37
 — C. W. C. 106, 159
 — G. 96
 — W. S. I. 239, 240
 Barnaby, S. W. 70, 85
 Barnard, F. P. 4
 — H. C. 176
 — H. L. 265
 — J. E. 196
 — R. J. A. 40
 — S. 25, 30
 Barnes, A. A. 53
 Barnett, E. de B. 130, 131, 145, 146, 150
 — H. N. 237, 252, 260
 Barr, J. R. 112
 — W. 289
 Barrett, C. G. 187
 — E. G. 75, 77
 — Sir J. W. 231
 Barritt, A. 283
 — W. 283
 Barron, P. A. 80
 Barrow, I. 21
 Barrowcliff, M. 151
 Barter, S. 64
 Barthel, C. 215
 Bartlett, F. C. 13
 Barton, E. H. 40, 42, 102
 — F. T. 216, 296
 — G. A. H. 262
 Barwell, H. 274
 — R. 268
 Barwise, S. 57
 Bassett, A. 249
 — A. B. 29
 Bassett, H. I. I. 122
 Bastin, H. 187, 204
 Bate, A. H. 112
 Bateman, H. 29, 100
 Bater, C. H. 137
 Baterden, J. R. 208
 Bates, A. 68
 — E. L. 24, 33, 42
 Bateson, W. 193
 Batey, J. 84, 310
 Bath, W. H. 187
 Batstone, S. C. 117
 Batten, F. E. 280
 Battle, J. R. 74
 — W. H. 258, 285
 Bauer, G. 85, 89

Name Index.

- Bauer, H. 122
 Bausor, H. W. 122, 125, 133, 134
 Baxandall, G. A. 33
 Bayley, R. C. 307
 — T. 125
 Bayliss, W. M. 195, 225, 227, 287
 Bayly, H. W. 246
 Beacall, T. 147
 Beadle, C. 142, 148
 Beale, Sir W. P. 164
 Bean, W. J. 208
 Bear, W. E. 217
 Beare, J. I. 6
 — T. H. 40
 Beardmore, N. 53
 Beattie, J. C. 162
 — J. M. 239, 240, 260
 Beatty, J. 227
 Beaumont, R. 299, 300
 — W. M. 271
 — W. W. 118
 Beavan, R. 191
 Beazeley, A. 52, 55
 Beazley, C. R. 175
 Beck, E. G. 67
 Beddard, A. P. 226
 — F. E. 185, 190, 193
 Beddoes, T. P. 291
 — W. F. 208
 Bedford, C. H. 239
 — E. J. 307
 Beech, F. 299
 Beesly, L. 221
 Beeson, F. T. 307
 Begg, C. 236
 Bell, G. J. 44
 — J. 119, 196
 — R. 248
 — R. J. T. 30, 32
 — T. F. 298
 — W. B. 228, 265, 275
 Bellamy, E. 221
 Bellasis, E. S. 53, 55
 Bellot, H. H. L. 172
 Bellow, H. R. 149
 Beneden, P. J. 190
 Bennett, W. 11
 Bengough, G. D. 133, 154
 Benham, F. L. 237
 Benn, A. W. 4, 6
 Bennett, A. 203
 — A. G. D. 254, 267
 — A. H. 231
 — H. G. 149
 — H. W. 307
 — N. G. 283
 — R. R. 291
 Bennett, S. B. 57
 — W. 193
 Bennie, A. B. 268
 — P. B. 268
 Benson, S. F. 93
 Bentham, G. 8, 198, 205
 Bentley, W. 72, 75
 Bergson, H. 9, 10
 Beringer, C. 156
 — J. J. 156
 Berkart, J. B. 255
 Berkeley. 10
 — C. 275, 276
 — H. 22
 — H. R. 151
 — M. J. 204, 205
 Bernard, D. H. 182
 — H. M. 224
 Bernstein, 15
 Bernthsen, A. 131
 Berriman, A. E. 79, 92
 Berry, A. 159
 — A. G. V. 144
 — A. J. 134, 162
 — G. A. 269
 — G. G. 7
 — R. J. A. 221
 — W. H. 91
 Bersch, J. 141, 146
 Berthelot, M. 150
 Bertrand, G. 134
 Besant, W. H. 29, 40, 42
 Bevan, E. J. 135, 148
 — J. O. 6
 Beveridge, W. W. O. 232
 Bevis, A. W. 47
 — J. F. 198
 Beyer, O. W. 18
 Beyschlag, F. 165
 Bianchi, L. 253
 Bichel, C. E. 150
 Bickford, J. S. V. 79
 Biddulph-Smith, T. 145
 Bidgood, J. 184
 Bidwell, A. L. 265
 — L. A. 263
 Biedermann, F. A. 113
 — W. 227
 Bigelow, M. A. 184
 Bigg, G. S. 257
 — R. H. 268
 Biggs, G. N. 273
 Bigwood, G. 297
 Biles, Sir J. H. 70
 Billington, W. 257
 Binet, A. 15, 19, 280
 Binnie, Sir A. R. 56

- Binnie, F. G. 288
 Binns, C. F. 149
 Binstead, H. E. 64
 Bird, C. 166
 — H. 49
 Birks, F. 60
 Birnbaum, R. 276
 Bishop, E. S. 258, 263
 — L. F. 254
 Bjorkegren, M. E. 224
 Björling, P. R. 56, 72, 146
 Black, J. 3
 Blackburn, C. J. 91
 Blacker, G. 276
 Blackhall-Morison, A. 254
 Blackham, R. J. 236
 Blackmar, W. J. 77
 Blackwood, W. 299
 Blagrove, G. H. 62
 Blaine, R. G. 28, 37, 56
 Blair, C. 271
 Blake, A. J. J. 221, 227
 — E. 120
 — E. G. 62
 — E. H. 57
 — W. J. 94
 Blanc, L. 289
 Blanco, A. E. 301
 Bland, N. 300
 Bland-Sutton, Sir J. 260, 267, 275
 Blanford, H. F. 162
 Bligh, S. M. 15
 — W. G. 49
 Bloch, I. 228
 — L. 59
 Blocksidge, E. W. 70
 Blok, A. 59
 Blomfield, J. 262
 Blount, B. 66, 136
 Bloxam, A. G. 122, 136
 Blum, V. 258
 Blyth, A. W. 235, 238
 — M. W. 235, 238
 Blythe, E. 109
 Bocher, M. 23
 Böckmann, F. 151
 Bodmer, G. R. 56
 Boelter, W. R. 184
 Bohle, F. 113, 117
 Bolam, J. 282
 Boldt, J. 270
 Bolton, F. R. 139
 — J. S. 252, 256
 Bon, G. Le. 20, 103
 Bonacina, L. C. W. 162
 Bonar, J. 6
 Bone, W. A. 144
 Bonhote, J. L. 192
 Bonner, J. 308
 Bonney, G. E. 115, 118
 — S. G. 168
 — T. G. 167, 168
 — V. 275, 276
 Bonnier, G. 198
 Boodle, L. A. 203
 Booth, N. 301
 — W. H. 57, 83, 142, 143
 Boraston, J. M. 192
 Borchardt, W. G. 25, 34, 36, 40
 Borradaile, L. A. 186
 Bos, J. R. 214
 Bosanquet, B. 9, 11, 12, 13
 — W. C. 240, 243, 256, 287
 Bose, Sir J. C. 199, 201, 227
 Boswell, P. G. H. 169
 Bosworth, G. F. 211
 Bottler, M. 150
 Bottomley, J. T. 37
 Bottone, A. E. 111
 — S. R. 111, 115, 117, 118, 120
 Boulenger, G. A. 191, 192
 Boulger, G. S. 198, 206, 208
 — P. S. 203
 Boulnois, H. P. 52, 58
 Boulton, A.
 — B. C. 64
 Boulvin, M. J. 81
 Bourcart, E. 152
 Bourgeois, H. 273
 Bourget, J. 265
 Bourne, A. A. 25, 30, 36
 — A. W. 277
 — G. C. 224
 Bourry, E. 65
 Bousfield, E. C. 308
 — G. 208
 — P. 19
 Boutroux, E. 6
 Bowden-Smith, E. C. 56, 84
 Bower, C. O. 157
 — F. O. 2, 189, 202, 228
 — W. R. 96
 Bowers, R. S. 47, 64
 Bowie, P. G. 67
 Bowker, W. R. 111, 117
 Bowlby, Sir A. A. 262
 Bowley, A. L. 22, 38
 Bowling, G. S. 39
 Bowman, F. H. 297
 Box, C. R. 221, 239
 — T. 43, 53
 Boyce, Sir R. W. 236, 248
 Boycott, G. W. M. 71
 Boyd, J. 208

Name Index.

- Boyle, H. E. G. 262
 Boys, C. V. 72, 100
 Brace, T. S. 308
 Brackenbury, L. 15
 Bradbury, F. 218, 301
 Bradby, M. K. 18, 19
 Bradley, F. A. 56
 — F. H. 9
 — O. C. 192, 295
 Bragg, Sir W. H. 103, 105, 164
 — W. L. 164
 Bragstad, O. S. 114
 Braham, F. 218
 Braithwaite, A. 308
 Brame, J. S. S. 123, 143
 Bramley-Moore, S. 79
 Brand, A. 302
 — A. T. 243
 Brandis, Sir D. 208
 Branford, B. 22
 Branson, W. P. S. 239
 Brassey, 70
 Braun, J. 289
 — M. 248
 Braunc, W. 221
 Brearley, A. W. 157
 — H. 157
 — J. H. 145
 Breitland, W. J. 128
 Bremner, A. G. 88
 Brenchley, W. E. 202, 212
 Brend, W. A. 237, 238
 Brent, C. 182
 Bresslau, E. 193
 Brett, G. S. 15
 Brew, W. 114
 Brewer, R. W. A. 79
 Brewerton, E. W. 269
 Brickdale, J. M. F. 245, 292, 293,
 294
 Bridge, R. S. 176
 Bridger, A. E. 15
 Bridges, J. H. 2
 Briggs, F. W. 146
 — H. 50
 — W. 1, 25, 26, 32, 33, 34, 39, 40,
 42, 122, 133, 134
 Brigham, A. A. 216
 Bright, C. 91
 — T. 214
 Brightmore, A. W. 49, 57
 Brill, A. A. 19
 Brindley, 3
 Brinton, R. S. 302
 Briscoe, H. V. A. 129
 Brislee, F. J. 143
 Bristow, W. R. 267
 Bristowe, J. S. 241, 251
 Britten, F. J. 78
 Broad, C. D. 9
 Broadbent, F. 111
 — Sir J. F. H. 254
 — W. 231
 — Sir W. H. 231, 254
 Broadfoot, S. K. 111
 Broca, A. 266, 267
 Brockbank, E. M. 237, 254, 255, 279
 Brodetsky, S. 24
 Brodie, C. G. 221
 Bromley, H. A. 148, 305
 Brook, J. 45
 Brooke, G. E. 232, 258
 — H. B. 252
 — T. 145
 Brooker, A. 107
 Brooks, E. E. 106, 117
 — G. 89
 — L. 178
 Brooksmith, J. 36
 Brose, H. L. 104
 Brouardel, P. 237
 Brough, B. H. 50
 — J. W. 172
 Broughton, H. H. 74
 Brown, A. F. 208
 Brown, 182
 — A. 298
 — A. J. 137
 — C. 162
 — C. H. 181
 — E. 218
 — E. T. 215
 — E. W. 1, 160
 — G. E. 307
 — Sir H. 55
 — H. 218, 290
 — J. C. 122, 133
 — J. D. 305
 — J. R. 182
 — L. C. 219
 — R. N. R. 176
 — S. E. 96
 — S. W. 120
 — W. 17
 — W. C. 245, 258
 — W. L. 156, 225, 251, 285
 — W. N. 68, 78
 Browne, A. J. J. 168, 169
 — C. L. 72
 — E. A. 233
 — F. B. 187
 — H. S. 262
 — T. G. 295
 Browning, C. H. 229, 246

Name Index.

- Brownlie, T. A. 55
 Brubaker, A. P. 225, 226
 Bruce, B. J. 123
 — Sir D. 246
 — G. R. 85
 — J. M. 285
 — O. 249
 — W. 252
 — W. I. 105
 Bruck, W. F. 212
 Bruges, C. E. 58
 Brunings, W. 274
 Brunner, R. 139
 Brunt, D. 15
 Brunton, Sir T. L. 254, 256
 Bryan, G. H. 25, 26, 31, 32, 34, 39,
 40, 42, 92
 — M. T. 294
 Bryant, V. S. 123, 176
 — W. W. 2
 Bryce, A. 257
 — T. H. 222
 Bryson, T. 50
 Buchanan, A. M. 221
 — E. E. 37
 — J. F. 154, 157
 — J. Y. 96
 — R. J. M. 237
 Buck, P. C. 103
 — R. C. 26, 34
 Buckley, R. B. 55
 Buckmaster, G. A. 225, 241
 Bucknill, J. C. 237
 Buckton, G. B. 187
 Budden, E. 30
 Budge, Sir E. A. W. 231
 Buhler, F. A. 136
 Bull, J. 278
 Buller, A. H. R. 204
 Bullock, A. B. 11
 — J. E. 249
 — W. 208
 Bulman, H. F. 172
 Bunting, W. L. 178
 Burbury, S. H. 100
 Burch, G. J. 101
 Burchett, R. 30
 Burdett, M. I. 291
 Burghard, F. F. 260, 261, 263, 264,
 265
 Burke, E. T. 246
 Burleigh, D. H. 133
 Burley, G. W. 75
 Burls, G. A. 88, 94
 Burnet, E. 229
 — J. 6, 243, 280, 284, 286
 — Sir R. W. 286
 Burnford, J. M. 240
 Burnham, F. W. E. 241
 — G. H. 272
 — M. H. 171
 Burns, C. D. 6
 — D. 172, 173
 — G. J. 61
 Burnside, W. 27, 49
 — W. S. 26
 Burrell, B. A. 235
 — E. J. 61
 Bursill, A. 116
 Burstall, F. W. 88, 100
 Burton, E. F. 128
 — F. G. 310, 311
 — W. K. 56
 Burton-Fanning, F. W. 249
 Bury, J. 243
 — J. B. 9
 Busquet, R. 53
 Butcher, W. D. 227
 Butler, D. B. 66
 — E. 54, 73, 79, 87, 143
 — E. A. 187
 — E. J. 212
 — H. J. 79
 Butler-Jones, F. 137
 Buttel-Reepen, H. 197
 Butterfield, W. J. A. 143
 Butterworth, F. 85
 Buxton, D. W. 262
 — J. L. D. 283
 Buzzard, E. F. 252, 285
 Byam, W. 244
 Byles, C. B. 52
 Byrom, T. H. 145, 171
 Bythell, W. J. S. 105
 Cadbury, G. 68
 Cadriot, P. J. 295
 Cahen, E. 165
 Cain, J. C. 123, 124, 146, 147
 Caird, F. M. 260
 — W. J. 181
 Calcare. 66
 Caldecott, W. A. 155
 Calder, A. B. 277
 Caldwell, W. 9
 Calisch, L. 117
 Callan, T. 146
 Callendar, H. L. 81, 84, 99
 Calmette, A. 287
 Calot, F. 267
 Calthrop, E. R. 55
 Calvert, A. F. 151, 165, 169
 — G. T. 151
 — H. T. 58, 122, 137
 Calwell, W. 285

Name Index.

"Cambridge Graduates." 2

Cameron, C. A. 213
 — H. C. 279, 280
 — S. J. 275
 Camm, F. J. 75, 93
 — S. 93
 Cammidge, P. J. 239, 257, 266, 286
 Campbell, Miss A. 279
 — A. 143, 144
 — A. W. 239
 — H. 240
 — H. J. 184, 226
 — H. Y. 278
 — J. E. 27
 — M. 226
 — N. R. 96, 106
 Campin, F. 72
 Camus, J. 287
 "Candidus." 79
 Candolle, A. de. 202
 Candy, H. C. H. 96, 125, 132
 Cannons, H. G. F. 305
 Cantell, M. T. 66
 Cantrill, T. C. 172
 Capito, C. A. A. 39
 Capstick, J. W. 103
 Card, S. F. 94, 180
 Carey, A. E. 52, 55
 — F. S. 28
 Cargill, L. V. 262
 Carless, A. 261
 Carling, E. R. 262
 Carnegie, D. 124, 153
 Carpenter, A. 182
 — G. 247
 — G. H. 187
 — J. A. 123
 — W. B. 196
 — W. L. 140
 CarpmacL, H. 119
 Carr, F. H. 151
 — H. W. 9, 104
 Carrel, A. 285
 Carroll, J. A. 255
 — J. H. 244
 Carruthers, T. 239
 Carslaw, H. S. 28, 34, 35
 Carson, H. W. 262
 Carter, A. H. 242
 — E. E. 302
 — H. G. 205
 — H. R. 297, 298, 299, 300, 301
 — T. 114
 Case, J. 81, 112
 Caspari, W. A. 142
 Cassidy, L. 246
 — M. E. 258

Castell-Evans, J. 125
 Castellani, A. 258
 Castle, F. 24, 36, 37, 47
 — W. F. 287
 Catchpool, E. 103
 Cathcart, C. W. 77, 260, 267
 — E. P. 134
 Caton, R. 254
 Caunt, G. W. 28, 52
 Cavanagh, F. 232
 Cave, C. J. P. 162
 Caven, R. M. 126, 129, 133
 Cavendish, H. 106
 Cavers, F. 198, 202
 Cayley, A. 21
 Chadwick, O. 51
 Chalkley, A. P. 88, 89
 Challenger, F. 144, 147
 Chalmers, A. J. 258
 — J. A. 173
 — J. B. 44
 — T. W. 45, 140, 148
 Chamberlain, A. 193
 — J. 300
 Chamberlin, T. C. 166
 Chambers, G. F. 159, 160
 — G. M. 50
 Chance, E. J. 268
 Chandley, C. 146
 Channer, C. C. 302
 Chaplin, A. 244, 286
 Chapman, A. C. 137
 — A. E. 175
 — E. H. 162
 — J. E. 249
 — R. W. 159
 — S. J. 297
 Chappell, 37
 Charlesworth, F. 24, 33, 42,
 Charleton, A. G. 173
 Charnock, G. F. 72
 Charpentier, P. 208
 Charteris, F. J. 242
 — M. 242
 Chatley, H. 45, 49, 53, 56, 92, 162
 Chatterton, F. 62
 Chavasse, P. H. 278
 Cheremeteff, A. 203
 Cheshire, F. R. 216
 Cheyne, Sir W. W. 249, 260
 Child, H. 271, 285
 — J. M. 25, 30, 35
 Childe, C. P. 263
 Chisholm, G. C. 176, 177
 — J. 57
 Chivers, G. T. 34
 Cholmeley, H. P. 231

Name Index.

- Chope, R. H. 37
 Choyce, C. C. 260
 Chree, C. 162
 Christian, M. 139
 Christiansen, C. 97
 Christie, A. H. 302
 Christopher, J. E. 145
 Christopherson, W. B. 258, 288, 289
 Christy, C. 142
 Chrystal, G. 26
 Chubbe, C. P. B. 258
 Church, A. H. 123, 141, 193
 Churchill, J. H. 244
 Churchward, A. 197
 Clapham, C. B. 36, 43, 45
 — J. H. 297
 Claparède, E. 18
 Clapperton, G. 148
 Clark, A. G. 94
 — D. K. 52, 72
 — H. 289
 — H. E. 221
 — J. B. 37
 — L. 45, 160, 307
 Clarke, A. G. 79
 — E. 271
 — G. A. 162
 — H. 240
 — H. T. 131, 132
 — J. J. 248, 268
 — J. W. 56, 58, 61
 — R. F. 13
 — W. B. 266
 Clarkson, G. T. 94
 — S. S. 136
 Claude, G. 129
 Claxton, W. J. 184
 Clay, A. S. 51
 — F. 12
 — J. 221
 — R. S. 100
 Claypon, J. E. L. 235
 Clayton, C. H. J. 215
 — E. G. 235
 — S. C. 53
 — W. 140
 Clayton-Greene, W. H. 264
 Cleghorne, W. S. H. 215
 Cleland, E. D. 173
 Clemow, F. G. 236
 Clemesha, W. W. 58, 229
 Clerk, D. 88
 Clibbens, D. A. 127
 Clifford, W. K. 21
 Clinton, W. C. 59, 116
 Clodd, E. 194
 Clough, G. W. 151
 Clough, W. T. 1
 Clouston, Sir T. S. 232, 253
 Clouth, F. 142
 Clowes, F. 100, 123, 133
 Cobb, I. G. 252, 256
 Cobbett, L. 249
 Cochrane, A. W. R. 289
 Cockerell, D. 305
 Cockin, T. H. 172
 Cocking, W. C. 67
 Cocks, O. H. 24
 Cockshott, A. 31
 Codd, L. 126
 — M. A. 88, 115
 Coffey, P. 13
 Coghlan, H. L. 218
 Cogle, 181
 Cohen, J. B. 124, 131, 143
 Colbeck, E. H. 286
 Cole, G. A. J. 164, 166, 168
 — M. J. 196
 — R. H. 253
 — R. S. 307
 — S. W. 134
 — W. H. 53
 Coleman, F. 283
 — J. B. 123, 133, 213
 — P. 32
 — T. E. 54, 58, 62, 66
 — W. S. 187
 Coles, A. C. 196, 229, 254
 Colledge, L. 273
 Collen, H. L. 178
 Collet, H. 57
 Collie, A. 246
 — A. E. 292
 — Sir J. 19, 237
 Collin, A. 147
 — E. 235
 Collings, E. R. 85
 Collingwood, R. G. 8
 Collins, H. F. 154
 — J. H. 165
 — S. H. 220
 — V. E. 242
 Collis, A. G. 111
 — A. J. 259
 — F. L. 259
 Collum, R. W. 262
 Coltman-Rogers, C. 208
 Colver, E. de W. S. 150
 Colwell, H. A. 105, 134
 Colyer, F. 56
 — Sir J. F. 257, 263, 283
 — S. 283
 Compayré, G. 4
 Comrie, J. D. 242

Name Index.

- Comrie, P. 36
Connan, J. C. 111
Connor, W. J. 84
Constantine, E. 85
Conway, A. W. 104
— Sir M. 20
Cook, 301
— C. W. 70
— E. T. 208
— J. B. 294
— M. T. 212
— Sir T. A. 12
Cooke, A. 260
— B. W. 53
— J. B. 126
— M. C. 198, 203, 204
— T. 221
Coolidge, J. L. 29, 34
Coombs, C. F. 242
Cooper, A. 257
— C. S. 201
— E. A. 283*
— E. S. 145
— I. C. G. 70
— J. W. A. 251
— W. R. 109, 115, 155
Cope, Z. 245, 264
Copeland, E. B. 218
Copeman, S. M. 288
Copestake, B. M. G. 287
Coppock, J. B. 134, 171
Corbett-Smith, A. 257
Corbin, H. E. 97
— T. W. 49, 72
Corder, G. A. 165
Corner, E. M. 257, 258, 261, 265
Cornet, G. 249
Corstorphine, G. S. 169
Costa, B. F. B. Da. 248
Coste, J. F. 142, 143, 146
Cotar, C. 287
Cottam, A. 161
Cotter, J. R. 99
Cotterill, J. H. 42
Cottrell, H. E. P. 129
Coulthurst, S. L. 308
Coupland, W. C. 10
Cour, J. L. La. 114
Courcoax, Dr. 264
Coursey, P. R. 120
Courtenay, E. 295
Courtois-Suffit. 246
Coutts, H. T. 305
Coux, H. de la. 137
Cow, D. V. 292
Cowan, J. 254
— T. W. 216, 217
Coward, H. F. 125
— T. A. 192
Cowee, G. A. 310
Cowell, W. B. 140
Cowie, G. A. 218
Cowley, W. L. 92
Cox, J. 39, 103
— L. E. 202
— S. H. 165, 171
Coyle, D. 114
Crabtree, H. 45
— J. H. 187, 307
Cracknell, A. G. 24, 26, 31, 37
Craig, E. H. C. 143, 169
— J. 295
— M. 242
— W. 291
Cramer, W. 134, 228
Cramp, W. 112, 118
Crane, W. 305
Crapper, E. H. 113
Crawford, W. J. 40, 81
Crawford, R. 231, 285
Creagh-Osborne, F. 94
Cree, A. 74
Creedy, F. 113
Creighton, C. 248, 249, 276
— J. E. 17
Cremona, L. 32, 40
Cressy, E. 4
Crile, G. W. 252
Crimp, W. S. 58
Cripps, H. 257, 265
Crisp, F. 196
Crispin, E. S. 258
Critchell, J. T. 4
Critchley, H. 287
Croce, B. 9, 11, 12, 13
Crocker, H. R. 284
Crockett, T. 175
Crofton, W. M. 249, 287
Crook, H. E. 289
— T. 165
Crookes, Sir W. 133, 137, 218, 220
Crookshank, F. G. 243
Cross, C. F. 135, 148
— F. 120, 180
— H. E. 296
— H. H. U. 118
— M. I. 196
— W. E. 100
Crossley-Holland, W. 291
Crotch, A. 119
Crow, D. A. 282
Crowley. 233
Crowther, J. A. 2, 97, 103
Crozier, J. B. 6

Name Index.

- Cruchet, R. 255
 Cryer, T. 42, 47
 Cubitt, H. 63
 Cuff, H. E. 294
 Cullingworth, C. J. 277
 Cullis, C. E. 27
 Cullyer, J. 214
 Culpin, M. 253
 Cumberbatch, E. P. 244, 290
 Cumming, A. C. 124, 184
 — D. 304
 — L. 106
 Cuning, J. 260, 279
 Cunningham, B. 54, 61
 — D. J. 22
 — E. 104
 — J. T. 187, 191
 Cunnington, C. W. 278
 — S. 21
 Cunynghame, H. H. 78
 Curgenven, J. S. 286
 Curr, A. L. 177
 Curry, C. E. 100, 106
 — W. T. 56
 Curtis, A. H. 165
 — C. E. 208, 214
 Curtler, W. H. R. 215
 Curwen, K. M. 233
 Cushny, A. R. 227, 292
 Cutler, H. A. 52
 Cuyler, E. 224
 Da Costa, B. F. B. 248
 Dahlstrom, K. P. 84
 Dakin, W. J. 186, 190
 Dalby, W. E. 81, 83
 Dale, J. B. 37, 47
 Dales, J. H. 47
 Dallinger, W. H. 196
 Dalton, G. 257
 — J. 3
 Dampier-Bennet, A. G. 254, 267
 Dana, C. L. 251
 Danby, A. 169
 Dancaster, E. A. 66, 129
 Dander, M. M. 94
 Daniel, P. L. 249
 Daniels, C. W. 259
 — G. W. 297
 Darby, J. C. H. 114
 Darbyshire, H. 75
 D'Arcy, C. F. 11
 Dargon, J. 91
 Darling, C. R. 97, 99
 — H. C. R. 233, 263
 Darwin, C. 3, 185, 190, 194, 197, 198, 202
 — Sir F. 1, 3, 194, 199, 202
 Darwin, Sir G. H. 1, 160
 Davenport, C. 305
 — J. A. 66
 Davey, H. 56
 — N. 89
 David, H. E. F. 147
 Davidge, H. T. 109
 Davidson, Sir J. M. 262
 — P. W. 78
 Davies, A. M. 170, 187, 233
 — B. H. 79
 — D. 51
 — F. H. 72, 117
 — G. M. 165
 — G. MacD. 169
 — J. 153
 — P. J. 58
 — S. H. 137
 Davis, A. 3
 — C. F. L. 307
 — F. 279
 — G. B. 58
 — H. 284
 — H. N. 81
 — J. R. A. 199, 202, 211, 212, 214, 215
 — R. F. 32
 — R. H. 71
 — W. 300
 — W. A. 132
 — W. B. 193
 Davison, C. 26, 28, 30, 32, 35, 167, 233
 Daw, A. W. 74, 172
 — S. W. 267
 — Z. W. 74, 172
 Dawe, E. A. 305
 Dawson, E. R. 228
 — P. 117
 Day, J. R. 249
 Deakin, R. 26, 34
 Dean, A. 61
 Deane, H. E. 287
 — P. E. 231
 Deanesly, F. 266
 Deare, B. H. 292
 Dearle, N. B. 1
 De Bary, A. 199, 202
 Deeley, R. M. 74
 Deerr, N. 218
 Dehelly, G. 285
 Delbos, L. 45, 182
 Delille, P. A. 245
 Dell, J. A. 18
 De Martel, T. 265
 De Montmorency, J. E. G. 4
 Dendy, A. 194

Name Index.

- Denby, M. 280
 Deniker, J. 197
 Denning, D. 64
 Dennis, H. J. 48
 Denny, A. 189
 — C. W. 119
 — G. A. 173
 Denton, F. M. 112, 113
 Depéret, C. 185
 Desaint, A. 68
 Descartes. 10
 Desch, C. H. 66, 156
 Despard, L. L. 287
 Detmer, W. 202
 Deussen, P. 9
 Devey, R. G. 116
 De Villamil, R. 42, 93, 103
 Devillers, R. 92, 94
 De Vries, D. 75
 — H. 194
 Dewar, Sir J. 102
 Dewey, J. 6
 De Wulf, M. 6
 Dexter, S. G. F. 18
 D'Heliecourt, R. 307
 Dichmann, C. 157
 Dick, J. R. 114
 Dickson, A. A. C. 173
 — H. N. 162
 — J. M. 146
 — L. E. 26
 — W. E. 240
 Dieterich, K. 141
 Dieulafoy, G. 242
 Digby, K. H. 288
 Digges, J. G. 217
 Dighton, C. A. 274
 Dilling, W. J. 285
 Dimond, L. 244
 Diophantus. 22
 Diver, E. W. 249
 Dixie, A. E. 94
 Dixon, A. C. 23
 — A. F. 223
 — C. 192
 — F. E. 50
 — H. H. 202
 — S. G. 229
 — W. E. 293
 Dobbie, M. L. 287
 Dobbins, L. 123, 151
 Dobbs, H. J. 30
 — W. J. 24, 39, 40
 Dobell, C. 190
 Doberick, W. 37
 Dobson, B. 297, 298, 301
 Dodd, S. 278
 Dodgson, J. W. 213
 Dollar, J. A. W. 217, 295
 Dolmage, C. G. 159
 Dominici, M. 289
 Dommett, W. E. 37, 45, 71, 72, 79
 — 88, 94
 Donville, E. J. 294
 — Fife, C. W. 71
 Don, J. 57, 98, 181
 Donald, A. 277
 Donaldson, L. 309
 — R. 241
 Doncaster, L. 194, 195, 196
 Donington, G. C. 123
 Donkin, B. 88
 — E. M. 85
 — S. B. 85
 Donnan, F. G. 1
 Dore, S. E. 289
 Dorey, A. 46
 Douglas, A. H. 6
 — C. 6
 — C. C. 231
 Dover, A. T. 116, 117, 118
 Dow, J. S. 59
 Downie, J. R. 154
 Dowse, T. S. 287
 Dowsett, H. M. 120, 121
 Dowson, J. E. 143
 Doyen, E. 262
 Doyle, K. D. 55
 Draper, C. H. 99
 — J. W. 4
 Dreaper, W. P. 123, 147
 Drever, J. 15
 Drew, W. H. 31
 Dreyer, J. L. E. 159
 Driesch, H. 9
 Driffield, V. C. 307
 Drinkwater, H. 194
 Dron, R. W. 169
 Drought, C. W. 245
 Druce, G. C. 199, 201, 205, 206
 Druery, C. T. 205
 Drummond, I. M. 184
 — J. 263
 — M. 18, 202, 259
 — W. B. 18, 233, 242, 259, 280
 Drury, F. E. 61
 Drysdale, C. V. 113, 115
 Dubosc, A. 142
 Duchêne, E. A. 92
 Dueroquet, D. 267
 Duddington, N. A. 10
 Dudgeon, G. C. 211
 — L. S. 229
 Duerr, G. 299

Name Index.

- Duff, C. M. 9
 Duly, S. J. 165
 Dumbleton, G. F. 94
 Dumesny, P. 151
 Dumville, B. 18
 — J. 300
 Dunbar. 58
 Duncan, D. 3
 — F. M. 212, 308
 — J. 39, 42, 81, 97
 — W. G. 173
 Dundas Grant, J. 273
 Dunk, J. L. 103
 Dunkerley, S. 43, 54
 Dunkley, W. G. 35, 47, 73
 Dunlop, H. C. 37
 Dunn, J. T. 1
 — W. 67
 Dunnicliff, H. B. 123, 130
 Dunraven, Earl of. 180
 Dunstan, A. E. 1, 123, 127, 131, 144
 Dunstan, W. R. 218
 Dunton, W. F. 116
 Duprat, L. 11
 Dupré, A. 129
 Dupuy, G. M. 264
 Durell, C. V. 30, 31
 Durham, H. W. 77
 Durrant, J. H. 190
 — R. G. 130
 Duthie, A. L. 68, 149
 — J. F. 206
 Dutton, T. 242, 256
 Duval, P. 264
 Dwerryhouse, A. R. 168
 Dye, F. 58, 59
 — F. W. 60
 Dyer, Sir W. T. T. 205, 206
 Dykes, W. R. 199
 Dymes, T. A. 199
 Dymond, T. S. 213
 Dyson, Sir F. W. 159
 — S. S. 136
 Eagles, T. H. 31
 Ealand, C. A. 187, 196
 Earp, J. R. 255
 Easdale, W. C. 58
 Eason, A. B. 100
 Eastlake, A. 144
 Eastman, C. R. 170
 Eastwood, G. S. 26
 Eaton, R. B. 61
 Eccles, A. S. 287
 — J. R. 99, 100
 — W. H. 120
 — W. McA. 221, 257, 266
 Eck, J. 59, 100
 Ecker, A. 192
 Eddington, A. S. 104, 160
 Ede, G. 153
 Eden, T. W. 275, 277
 Eder, M. D. 19, 253
 Edgar, J. 75
 — J. C. 276
 Edgecumbe, K. 115
 Edge, F. J. 52
 Edmonds, H. 199
 Edmondson, T. W. 31, 33
 Edmunds, A. 254, 260
 Edridge-Green, F. W. 271
 Edser, E. 97, 99, 100
 Edwardes, E. J. 231
 — Ker, D. R. 213
 Edwards, A. T. 260
 — C. A. 153
 — F. S. 257
 — J. 28, 187
 Egmont, E. 289
 Eichhorn, G. 120
 Eiffel, G. 92
 Einstein, A. 104
 Eisner, A. W. 251, 288
 Eissler, M. 154, 174
 Ekin, T. C. 54
 Elbourne, E. T. 310, 311
 Elbs, K. 129
 Elder, A. V. 260
 — G. 280
 Elderton, E. M. 38, 44
 — W. P. 38
 Elgie, J. H. 162
 Eliot, M. E. Y. 51
 Elliott, A. W. M. 45
 Elliot, G. F. S. 197, 199
 — H. S. 194
 — R. H. 269, 270, 271
 Elliott, C. 206
 — E. B. 27
 — J. S. 231
 Ellis. 221
 — A. G. 111, 113,
 — B. E. 303
 — C. W. 65
 — D. 199, 229
 — E. T. 199
 — G. 47, 64
 — G. S. M. 199
 — H. 228, 233
 Ellison, F. O. B. 225
 — M. A. 287
 Ellmore, W. P. 218
 Elmslie, R. C. 262, 267
 Elsdon, J. V. 171

Name Index.

- Eltringham, H. 188
 Ely, L. W. 249
 Emery, W. D'E. 229, 267, 288
 Emsley, H. H. 101
 Emtage, W. T. A. 100, 106
 England, W. J. 283
 English, Sir T. C. 285
 Ensoll, R. 125
 Erdmann, J. E. 6
 Eriksson, J. 212
 Ermen, W. F. A. 68
 Ernle, Lord. 215
 Erskine Murray, J. 120
 Esch, W. 142
 Eshner, A. A. 226
 Espin, T. E. 160
 Etchells, E. F. 67
 Etheridge, R. 170
 Eucken, R. 9, 11
 Evans, A. 251
 — A. H. 102, 203
 — E. 199
 — E. A. 143
 — E. R. G. R. 180
 — J. C. 125
 — J. W. 164
 — T. J. 33
 — W. 242, 284
 Everest, A. E. 147
 Everett, A. 149
 — J. D. 125, 149
 Everitt, P. F. 308
 Ewart, A. J. 199, 202, 203
 — E. D. 221
 Ewing, Sir J. A. 39, 43, 81, 82, 99, 106
 Eyre, J. W. H. 287
 Faber, H. 214, 218
 — O. 67
 Fabre, J. H. 188
 Fage, A. 93
 Fagge, C. H. 221, 242, 264
 Fairbairn, J. S. 277
 Fairgrieve, J. 175, 177
 Fairie, J. 165
 Fairweather, W. C. 1
 Falconer, J. D. 169
 — W. W. 267
 Falconnet, H. 142
 Fanning, F. W. B. 249
 Fantham, H. B. 191, 248
 Faraday, M. 2, 4
 Farmer, J. B. 199
 Farnsworth, A. W. 67
 Farquharson, R. 285
 Farrar, R. A. 57, 232
 Farrell, F. J. 147
 Farrow, F. R. 62
 Fawcett, C. B. 179
 Fawdry, R. C. 22, 46
 Feldman, W. M. 222, 279
 Felkin, R. W. 290
 Fenchel, A. 283
 Fenton, H. J. H. 123, 127, 133
 Fenwick, B. 276
 — E. H. 257, 258
 — W. S. 256, 267, 280
 Feré, C. 19
 Fergus, F. 272
 Ferguson, R. B. 233
 — T. 51
 — W. B. 307
 Fergusson, F. F. 54
 Fernie, F. 114
 — W. T. 292
 Ferrers, N. M. 30
 Fidler, H. 67
 — T. C. 49, 54
 Field, A. 236
 — E. R. 171
 — Sir M. 183
 — S. 119
 Fielden, J. R. 26
 Fierz-David, H. E. 147
 Fife, C. W. D. 71
 Figgis, J. N. 6
 Fildes, P. 247
 Filon, L. N. G. 32
 Finch, R. J. 177
 Findlay, A. 127, 130, 136, 145
 — L. 247
 Finn, M. 106
 Finzi, N. S. 289
 Firth, J. B. 125, 127
 — R. H. 233
 Fischer, E. 131, 199
 — F. 137
 Fisher, B. 310
 — G. M. 7
 — H. K. C. 114
 — J. H. 270
 — O. 167
 — W. R. 203
 Fitzgerald, G. F. 106
 — S. 208
 Fitzsimons, F. W. 191
 Fitzwilliams, D. C. L. 261, 264, 294
 Flack, M. 225, 226, 255
 Flattely, F. W. 220
 Fleming, A. P. M. 114, 310
 — G. 295, 296
 — J. A. 103, 106, 114, 119, 120
 — R. A. 242

Name Index.

- Fletcher, Sir B. F. 4, 58, 62, 63, 64
 — C. 239
 — F. M. 304
 — H. P. 58, 62, 63, 64
 — J. J. 312
 Fleure, H. J. 179
 Fleury, P. 68
 Flint, R.. 6
 Flower, Sir W. H. 3
 Fock, A. 164
 Foden, J. 84
 Foerster, A. 247
 Foltzer, J. 300
 Forbes, A. C. 208
 — G. 3, 159
 — N. H. 289
 Fordham, Sir H. G. 175
 Fordyce, A. D. 279, 280
 Forel, A. 188
 Forrest, J. 269
 — S. N. 24, 171
 Forster, A. 234
 — F. L. B. 132, 231, 291
 — G. 171
 — L. 248
 — Morley, H. 126
 Forsyth, A. R. 23, 29, 30
 — D. 279, 294
 Fort, M. 147
 Fortescue, C. L. 120
 Fortescue-Brickdale, J. M. 245, 292,
 293, 294
 Foster, Sir C. Le N. 171
 — F. 89
 — G. C. 106
 — Sir M. 225
 — M. 245
 — R. B. 309
 Fothergill, C. F. 259
 — J. B. 299
 — J. M. 285, 286
 — W. E. 275, 277
 Foucar, L. J. 151
 Fourier, J. 99
 Fournier D'Albe, E. E. 106, 123
 Fowler, G. 61
 — G. H. 182
 — G. J. 229
 — J. S. 279, 280
 — R. H. 30
 — W. H. 82, 84, 89, 109
 — W. W. 188, 189, 190
 Fox, H. C. 273
 — R. F. 287, 289
 — R. H. 3
 — W. S. 247
 Francis, F. 298
 Franke, G.* 144
 Frankland, W. B. 22
 Franzen, H. 146
 Fraser, A. C. 7
 — J. 249, 265
 Fray, J. 101
 Frazer, J. E. 223
 Cream, W. 211, 217
 Frederick, R. C. 234
 Freeman, A. 99, 310
 — F. A. 175
 — N. H. 37
 — W. G. 212
 Fremont, C. 75
 French, C. H. 26
 — E. G. 247
 — H. 240, 243
 — J. W. 102
 Frenkel, H. S. 287
 Fresenius, T. W. 133
 Fretwell, W. E. 62
 Freud, S. 19
 Freudemacher, P. W.* 173
 Freudenreich, E. von. 215
 Freund, I. 123
 Freundlich, E. 104
 Freyberger, L. 280, 287, 293
 Freyer, Sir P. J. 266
 Frier, J. D. 93
 Friel, A. R. 273, 290
 Friend, J. N. 127, 129, 140, 141, 158
 Frith, J. 113
 Fritsch, F. E. 199, 203
 — J. 220
 Froment, J. 252
 Frost, P. 24, 30
 — W. A. 270
 Fry, G. C. 177
 Fryer, A. 203
 — P. J. 140, 212
 Fuller, Sir B. 15
 — B. A. G. 9
 Fullerton, W. 61
 Furneaux, W. S. 184, 188, 191, 199,
 225
 Futers, T. C. 74
 Gabell, D. 282, 283
 Gabriel, W. M. 282, 283
 Gadd, H. 238
 — H. W. 291, 293
 Gadow, H. 193
 Gage, H. C. 262
 Gairns, J. F. 83
 Gaisford, H. 81
 Galileo. 2
 Galloway, J. H.* 68
 Galton, Sir F. 3, 194, 197

Name Index.

- Galvayne, S. 296
Gamble, F. W. 185, 192
— W. 307
Gammon, J. C. 67
Ganswindt, A. 299
Gant, L. W. 118
Garbe, R. 83
Garcia, A. 312
Garcke, E. 109
Gardiner, C. J. 166
— F. 284
— G. G. 132
— J. S. 186
Gardner, H. B. 262
— P. 4
— W. M. 145, 147
Garlick, A. 18
Garnett, W. 107
Garnsey, H. E. F. 170, 199, 201, 204
Garrard, A. 88
— C. 111
— F. J. 78
Garratt, H. A. 81
Garrè, C. 265.
Garrett, A. E. 126, 307
— A. ff. 54
Garrod, Sir A. E. 239, 240, 280
Garry, T. G. 236
Garton, W. 290
Gask, G. E. 260
Gaskell, J. F. 245
— W. H. 227
Gaster, L. 59
Gatehouse, F. B. 66
Gates, P. 75
— R. R. 194
— S. B. 24
Gavronsky, J. O. 229
Gay, A. 111
Geary, H. 217
Geddes, A. E. M. 162
— P. 194, 195, 199
Gee, G. E. 154
— S. J. 243
— W. W. H. 38, 98, 110
Geen, B. 67
Geerligs, H. C. P. 138
Geiger, H. 105
Geikie, Sir A. 166, 167, 168, 176
— J. 166
Gemmell, G. H. 123
Geoghegan, H. 230
George, H. B. 175
Georgi, F. 77
Georgievics, G. 147, 297
Gerhardi, C. H. W. 115
Gerrans, H. T. 41
Ghambashidze, D. 165
Ghon, A. 250
Ghosh, B. N. 292
— R. 292
Gibb, D. 24
Gibbs, G. H. 283
Gibson, A. G. 239, 242
— A. H. 49, 54, 56
— C. R. 1, 109
— G. A. 26, 28, 33, 242, 244
— H. 184
— J. 9
— R. J. H. 200, 202
— W. 169
— W. R. B. 9, 10, 13
Gilbreth, F. 310
Giffen, Sir R. 38
Giles, A. E. 275, 276
— G. M. 236, 259
Gill, Sir D. 3
— J. 180
— J. F. 109
— N. J. 91
Gillanders, A. T. 188
Gillespie, A. L. 286
Gillett, H. J. 66
Ginsburg, B. W. 182
Giroux, R. 246
Gissing, F. T. 146
Giua, M. 156
Giua-Lollini, C. 156
Gladwyn, S. C. 153
Glaisher, J. W. L. 21
Glaister, J. 233, 234, 237, 238
Glassington, C. W. 283
Glazebrook, Sir R. T. 1, 39, 97, 99,
100, 106
Gleichen, A. 101
Glover, F. P. 24
— J. 53
— W. 15
Goadby, K. W. 238
Godfray, H. 159, 160
Godfrey, C. 26, 31, 32, 36, 37
Godlee, Sir R. J. 3, 231
Goebel, K. E. 202
Goerens, P. 156
Golding, A. A. 177
— H. A. 25, 45
Goldsbrough, G. F. 285
Golla, F. 246
Gomperz, T. 7
Goodall, A. 223, 225, 254
— E. W. 245
Gooday, W. E. 144
Goodbody, F. 257
Goodechild, W. 165

Name Index.

Goodeve, T. M. 43
 Goodfellow, J. 286
 Goodhart, Sir J. F. 280
 Goodman, J. 43
 Goodrich, W. F. 60
 Goodwill, S. G. 39
 Goodwin, H. B. 35
 Gordon, L. S. 214
 — M. H. 229
 — R. A. 214
 — W. 236
 Gorst, Sir J. E. 279
 Gosse, P. H. 196
 Gossin, H. 97
 Gotch, O. H. 255
 Goudie, W. J. 85, 89
 Gould, Sir A. P. 248, 262
 — E. P. 262
 Goulding, E. 218
 Goulston, A. 254
 Gower, A. R. 153
 — H. D. 307
 Gowers, Sir W. R. 17, 252, 270
 Gowland, W. 155
 Grace. 53
 — J. H. 27, 33
 Graham, J. 28, 43, 248
 — P. A. 215
 — V. 305
 Graham-Smith, G. S. 229, 245, 259
 Grahame-White, C. 91
 Grandmongin, E. 147
 Granger, F. S. 15
 Granjon, R. 77
 Grant, D. 151
 — F. L. 36
 — H. C. J. 180
 — J. 139
 — J. C. 304
 — J. D. 269, 273
 — J. T. 229
 Grasby, W. C. 211
 Gray, A. 3, 23, 40, 45, 97, 106
 — A. A. 273
 — F. W. 127
 — H. 221
 — Sir H. W. M. 262, 264
 — J. 84
 — J. G. 40
 — K. J. 270
 — S. O. 203
 Greaves, J. 42
 Green, A. A. R. 289
 — A. G. 147
 — A. H. 166
 — C. E. 248
 — F. E. 211, 215

Green, F. W. E. 271
 — J. A. 15
 — J. R. 199, 201, 202
 — T. H. 240
 Greene, J. A. 143
 — W. H. C. 264
 Greenhill, Sir A. G. 23, 42, 92
 Greenish, H. G. 235, 292
 Greenly, H. 72
 Greenstreet, W. J. 2, 11
 Greenwell, A. 56, 171
 Greenwood, H. C. 146
 — M. 227, 259
 — W. H. 153, 154
 — W. O. 276
 Grégoire, R. 264
 Gregorius, R. 144
 Gregory, E. S. 205
 — J. W. 166, 167, 176, 178
 — Sir R. A. 1, 39, 97, 175, 176
 Grew, E. S. 160
 Grey, C. G. 94
 — G. W. 62
 Gribble, T. G. 51
 Grierson, R. 60
 Griffiths, A. B. 156, 191, 220, 283
 — A. P. 134
 — E. A. 75
 — E. D. 1
 — E. H. 99
 — F. G. 250
 — H. D. 173
 — W. H. 286
 Grimsdale, H. B. 269
 Grimshaw, J. 242
 — R. 75
 Grönvold, H. 193
 Groom, P. 199, 203
 — T. R. 77
 Gross, E. 219
 Grossmann, J. 136, 151
 Groth, L. A. 77
 — P. 164
 Grove, W. B. 204, 205
 Groves, E. W. H. 260, 263, 264, 294
 Groves-Showell, P. 180
 Grubb, H. C. 63
 Gruner, A. 298
 — O. C. 241, 248
 Grunwald, J. 78
 Guest, J. J. 75
 Guillemard, F. H. H. 179
 Gullan, M. A. 294
 Gulland, G. L. 254
 Gulliver, G. H. 155
 — J. H. 12
 Gunn, J. 79

Name Index.

- Gunn, J. A. 10
 — M. 270
 Gunther, R. T. 212
 Guppy, H. B. 199
 Gurden, R. I. 52
 Gurney, E. 103
 Gurney-Dixon, S. 229
 Guthrie, C. C. 261
 — L. G. 280
 — T. 256
 Guttentag, W. E. 144
 Guttman, O. 150, 172
 Gwynne-Vaughan, D. T. 198
 H.D.F. 83
 Haas, P. 125, 135
 Haberlandt, G. 202
 Hackwood, R. W. 52
 Haddon, A. C. 197
 Haddow, A. N. 75
 Hadley, H. E. 39, 97, 106
 Haeckel, E. 224
 Haeder, H. 81, 88
 Haenig, A. 75
 Haig, H. A. 202
 Haggard, Sir R. 211, 215
 Haglund, P. 287
 Haig, A. 240
 Hainbach, R. 149
 Hainsworth, C. H. 118
 Hake, C. N. 150
 — W. 129
 Haldane, E. S. 10
 — J. S. 100, 194, 225
 Halden, G. M. 53
 Hale, A. J. 123, 129, 131
 — C. W. 233
 Hale-White, Sir W. 291
 Haler, P. J. 24, 72
 Hall, Sir A. D. 211, 213, 217, 220
 — C. A. 196, 200
 — C. J. J. Van. 219
 — H. R. 81
 — H. S. 26, 31, 34, 35, 36
 — J. W. 154, 239
 — T. C. F. 165
 — W. 37, 180
 Hallett, G. W. T. 48
 Halliburton, W. D. 225, 227, 241
 Halnan, E. T. 218
 Halse, E. 312
 Ham, B. B. 237
 Hamel, G. 91
 Hamer, W. H. 233
 Hamilton, C. 310
 — D. J. 255
 — Sir W. R. 23
 Hammick, D. L. 103
 Hammond, A. R. 189
 Hampshire, C. H. 134
 Hanby, W. 93
 Handy, C. E. 47
 Hankin, E. H. 92
 Hanna, W. 246
 Hannay, A. H. 8
 Hansel, C. W. 106
 Hansen, I. F. 181
 Hanson, C. O. 208
 — S. G. 217
 Harbord, F. W. 154
 Harby, W. 49
 Harcourt, L. F. V. 50, 55, 59
 Harden, A. 126, 130, 137
 Hardie, R. P. 6
 Harding, J. S. 302
 — M. E. 245
 Hardman, A. H. 301
 Hardwicke, W. W. 270
 Hardy, E. 40
 — G. H. 23, 28, 188
 — M. E. 203
 Hare, A. T. 116
 — F. 251
 Harker, A. 168
 Harloff, W. H. T. 138
 Harley, V. 257
 Harman, N. B. 269
 Harmer, Sir S. F. 185
 Harold, J. 243
 Harper, C. G. 48
 — H. 91, 123
 Harrop, C. 304
 Harris, D. F. 225, 251
 — G. T. 307
 — J. D. 290
 — P. W. 121
 — W. 251, 290
 Harrison, A. 310
 — A. B. 57
 — C. 69
 — F. 282
 — J. 33
 — L. W. 247
 — P. T. 61
 Harrow, B. 104
 Harston, G. M. 236
 Hart, B. 253
 — D. B. 277
 — H. 304
 — J. B. 99
 — J. H. 219
 — J. W. 58, 60
 Hart-Smith, J. 129
 Hartenburt, P. 252
 Hartmann, E. 10

Name Index.

- Hartmann, R. 193
Hartog, M. 194
Hartridge, G. 200, 271
— H. 226
Harvey, A. 149
— F. W. 24
— W. H. 204, 205
Harvey-Gibson, R. J. 200
Hasbach, W. 215
Haskett, T. H. 217
Haslam, A. P. 109
— G. 192
Hasluck, P. N. 43, 47, 58, 64, 67, 68,
75, 147, 302
Hassard, A. R. 294
— E. M. 294
Haswell, W. A. 186
Hatch, F. H. 164, 168, 169, 171, 173
Hatfield, W. H. 154
Hatschek, E. 128
Hatton, J. L. S. 30, 32
Hausbrand, E. 136
Hausner, A. 139
Havelock, J. H. 116
— T. H. 24
Havilland, G. de. 79
Haward, W. 254
Hawkhead, J. C. 121
Hawkins, C. C. 111, 113
— H. L. 170
— H. P. 257
Hawthorne, C. O. 237
Hay, A. 112, 113
— J. 255
Hayes, R. 247
Hayward, F. H. 15
— J. W. 81
— R. B. 23
— W. R. 206
Haywood, G. 224
Hazell, W. H. 310
Heape, W. 228
Hearn, G. R. 51
Hearson, H. R. 154
Heath, C. 222
— C. J. 274
— F. G. 200, 202
— R. S. 32, 41, 100
— Sir T. L. 3, 22, 34, 159, 161
Heaton, E. W. 177
Heaviside, O. 106
Heawood, E. 175
Hedges, K. 106
Heerman, P. 147
Hegel, G. W. F. 10
Heil, A. 142
Heilbron, I. M. 126, 181
Hellier, J. P. 279
Hellins, H. H. 57
Hellyer, S. S. 58
Helmholtz, H. L. F. 193
— H. von. 3
Hempsall, W. H. 217
Henderson, A. 30
— G. G. 128, 132
— J. 242, 294
— J. F. 184
— R. 214
— T. 271
— W. D. 184
Hendrick, E. 123
Hennell, T. 54
Henrici, O. 23
Henry, A. 208
— P. 80
— T. A. 135
Henslow, G. 200, 202, 212
Henslowe, L. 94
Henstock, J. 121
Henwood, J. H. 146
Hepburn, W. B. 283
Hepworth, M. W. C. 162
— T. C. 148
Herbert, A. 76
— H. 270
— S. 194, 228
— T. E. 119
Herbertson, A. J. 175, 177, 178
— F. D. 177
Herford, R. O. 310
Héricourt, J. 250
Heriot, T. H. P. 138
Herman, G. E. 275, 277
— R. A. 100
Hernaman-Johnson, F. 287
Herrick, T. P. 304
Herring, H. T. 266
Herring-Shaw, A. 58
Herringham, Sir W. P. 258
Herrmann, G. 56, 74
Herrod-Hempsall, W. 217
Herschel. 3
Herschell, G. 240
Hertwig, O. 228, 226
Hertz, H. 39, 106
Herxheimer, G. 239
Herz, W. 122
Herzfeld, J. 300
Hewat, A. F. 239
Hewitt, C. 188, 307
Hewlett, G. 312
— R. T. 184, 229, 240, 285, 288
Heylin, H. B. 298, 301
Heywood, H. 27

Name Index.

- Hibbert, E. 184
 — L. J. 307
 — W. 118
 Hicks, J. A. 144
 — J. W. 158
 — W. M. 41
 Hickson, S. J. 191
 Higgins, C. 269
 Higgins, A. L. 51
 — S. H. 147
 Higgs, G. G. 79
 — H. 38
 Highton, H. P. 133, 134
 Hildage, H. T. 310
 Hilditch, T. P. 122, 127, 131
 Hilger, W. 290
 Hill, A. 223, 226
 — A. M. 36
 — C. W. 73, 74
 — F. T. 93
 — J. G. 119
 — L. 225, 226, 259
 — M. J. M. 34
 — T. G. 135
 — W. 265
 Hiller, E. G. 84
 Hillhouse, W. 201
 Hilliard, H. 283
 Hilton, H. 27, 33, 164
 Hime, H. W. L. 30
 — T. W. 237
 Hinchley, J. W. 136, 218
 Hind, H. L. 309
 Hindle, E. 259
 Hinks, A. R. 159, 176
 Hinshelwood, J. 269
 Hiorns, A. H. 153, 154, 155, 156
 Hird, D. 194
 — H. C. 37
 Hirsch, W. 19
 Hirschel, G. 262
 Hjort, J. 183
 Hoare, C. 37
 — E. W. 295, 296
 Hobart, H. M. 111, 112, 118
 Hobbs. 115
 — F. D. 92
 — L. M. 81
 Hobday, F. T. G. 262, 295
 Hobhouse, L. T. 7, 10
 Hobkirk, C. P. 205
 Hoblyn, R. D. 242
 Hobson, E. W. 22, 23, 35
 Hodgett, E. A. B. 143
 Hodgins, J. E. 217
 Hodgkinson, W. ²R. 124
 Hodgson, E. S. 312
 Hodgson, H. H. 152
 — J. E. 173
 — J. T. 83, 84
 — R. B. 75, 77
 — T. R. 234
 Hodson, F. 1*
 Hoernes, H. 95
 Hoffding, H. 7, 15
 Hofmann, E. 188
 Hogarth, C. W. 286
 — D. G. 178
 Hogben, L. T. 3
 Högner, P. 100
 Holden-Stone, G, de. 79
 Holdich, Sir T. 178
 Hole, W. 146
 Holland, W. C. 291
 Hollander, B. 251, 280
 Holman, H. 13, 18
 Holmes, A. 168
 Holms, A. C. 70
 Holt, E. B. 10
 — H. G. 68
 — R. B. 53
 Holt-Butterfill, H. 47
 Holt-Thomas, G. 91
 Holtzmann, O. 312
 Holzwarth, H. 89
 Hood, C. 154
 — D. W. C. 256, 265
 — G. F. 123
 — W. P. 287
 Hooker, Sir J. D. 2, 3, 198, 205, 206
 — Sir W. J. 3, 205
 Hooper, J. 65
 — L. 299, 301
 Hooton, W. M. 129, 133
 Hoover, T. J. 174
 Hope, E. W. 233, 234
 — Sir W. H. St. J. 305
 Hopewell-Smith, A. 282
 Hopkinson, B. 21, 39
 — J. 21
 Horder, Sir T. J. 240, 242, 245
 Hornby, J. 145, 146
 Horne, H. P. 305
 Horner, D. W. 163
 — J. 157, 297
 — J. G. 72, 73, 74, 75, 76, 77, 84, 312
 Horsley, Sir V. 251
 Hort, E. C. 250
 Horth, A. C. 78
 Horton, C. M. 72
 Horwood, A. R. 200
 — C. B. 173
 Hoskins, G. G. 63

Name Index.

- Hoskins, H. P. 63
 Hoskold, H. D. 50
 Hough, W. S. 6
 Houston, Sir A. C. 57
 Houstoun, R. A. 97, 100
 Hovell, T. M. 274
 Hovenden, F. 25
 Hovestadt, H. 149
 Hovgaard, W. 70
 Howard, A. L. 203
 — R. 260, 263
 Howarth, O. J. R. 175, 177, 178
 — W. G. 274
 — W. J. 235
 Howden, R. 221
 Howe, F. J. O. 114
 — J. A. 169, 171
 Howell, C. M. H. 258
 Howes, G. R. 184, 186
 Howorth, J. 149
 Hoyle, B. 121
 Hubbard, E. 151
 — T. O' B. 92
 Hubner, J. 147
 Hudson, B. 242
 — H. P. 25
 — O. F. 154
 — R. W. H. T. 30
 — W. H. 192
 — W. H. H. 36
 Huclin, D. C. 312
 Huggins, G. M. 266
 Hughes, A. J. 180
 — A. L. 307
 — A. M. 123
 — A. W. 222
 — B. 264
 — E. L. 271
 — H. W. 172
 — T. H. 176
 — V. A. B. 84
 — W. 176, 177
 Hull, A. J. 264
 — E. 167
 Humber, W. 44
 Hume, 10
 Humphreys, H. 283
 Humphris, F. H. 290
 Humphry, L. 294
 Humphrys, N. H. 145
 Hunnybun, E. W. 206
 Hunsaker, J. C. 92
 Hunter, A. 49
 — C. 283
 — G. 256
 Hunt, G. B. 249
 Hunter, H. H. 218
 Hunter, J. 3
 — J. A. 301
 — W. 3, 254
 — W. I. 176
 Huntington, A. K. 153
 Hurd, A. 70
 Hurry, J. B. 252
 Hurst, A. F. 242, 252, 257
 — C. 81, 83
 — C. H. 186
 — G. H. 68, 140, 141, 144, 299
 — H. E. 97
 — J. T. 50, 61, 63, 64
 — J. W. 217
 Hurter, F. 307
 Husband, J. 33, 49
 Huskisson, W. M. 88
 Hutchins, B. L. 310
 Hutchinson, H. N. 170
 — J. 236, 252, 261
 — R. 226, 244, 280, 285, 286
 — R. W. 106, 107, 109
 Hutt, C. W. 233
 Hutton, F. H. 118
 — J. E. 310
 — R. S. 129
 — W. S. 50, 72, 84
 Huxley, J. S. 185
 — L. 3
 — T. H. 2, 3, 10, 175, 184, 186, 191, 194, 226
 Huygens, C. 101
 Hyatt-Woolf, C. 101
 Hyndman, H. H. F. 105
 Ibbetson, A. 219
 — W. J. 24
 — W. S. 109, 112, 116, 118, 309
 Ibbotson, F. 156
 Illingworth, S. R. 2
 Imbert, L. 263
 Imms, A. D. 186, 213
 Ince, J. 291
 Inchley, W. 43, 81, 84
 Ingham, A. E. 73
 Ingle, H. 141, 213
 Ingram, G. L. 296
 Innes, C. 60
 — C. H. 47, 56
 Innocent, C. F. 61
 Inwood, 214
 Ioteyko, J. 311
 Ireland, W. W. 280
 Irvine, M. C. W. 13
 Isler, C. 57
 J. F. L. 117
 Jack, G. 64
 — W. R. 242

Name Index.

- Jackman, W. T.** 311
Jackson, A. 76
 — **B. D.** 3, 200, 206
 — **C. E.** 97
 — **C. M.** 222
 — **C. S.** 37, 40
 — **D. H.** 85
 — **F. G.** 48, 64, 78
 — **H.** 208
 — **J. W.** 197
 — **P. G.** 84
 — **W.** 312
 — **W. H.** 224
Jacobi, C. T. 304
Jacobson, W. H. A. 261
Jaeger, F. M. 22
Jaggard, W. R. 61
Jagger, J. E. 47
Jaggers, E. M. 124
Jago, W. 129
Jaksch, V. 239
James, T. C. 131
 — **W. H. N.** 113, 115, 117
Jameson, W. W. 233
Jamieson, A. 43, 81, 90, 107, 110
 — **E. B.** 222
 — **W. A.** 284
Jane, F. T. 70, 85, 94
Janet, P. 7
Jansen, M. 267, 268, 280
Jaques, A. 127
Jardine, R. 276, 277
Jarvis, W. H. 53
Jast, L. S. 307
Jeans, J. H. 100, 107, 160
 — **J. S.** 154
Jefferys, W. H. 236
Jefferson, 182
Jeffery, F. H. 129
 — **H. J.** 198
Jehl, F. 117
Jellett, H. 275, 277
Jenkins, H. G. 310
 — **J. T.** 183, 191
Jenkinson. 53
 — **J. W.** 223
Jennings, A. S. 69
Jennison, H. 141
Jessop, C. M. 30, 35
Jervis-Smith, F. J. 72
Jessop, W. H. H. 269
Jevons, F. B. 10, 194
 — **H. A.** 13
 — **W. S.** 13
Jex-Blake, A. J. 221, 224
Jobling, E. 128, 146
Johns, C. A. 192, 206, 208
Johnson, A. F. 182
 — **A. E. W.** 246
 — **A. F. M.** 200
 — **G. L.** 308
 — **J. C. F.** 173
 — **J. H.** 117
 — **R.** 114, 308
 — **T. M.** 116
 — **V. E.** 45, 91, 113
 — **W. E.** 35
 — **W. H.** 219
Johnston, E. 305, 306
 — **G. A.** 11
 — **J. B.** 191
 — **J. F. W.** 213
 — **K.** 177
 — **T. B.** 221, 222
 — **Lavis, H. J.** 236
Johnstone, J. 191, 194
 — **S. J.** 152
 — **T.** 253
Joll, C. A. 251
Jolley, A. C. 115
Joly, C. J. 23
 — **J.** 103
 — **N.** 2
Jones, A. B. 237
 — **A. C.** 33, 199
 — **A. J.** 15
 — **B. E.** 47, 64, 309
 — **C.** 129, 308
 — **C. P.** 241
 — **D. C.** 38
 — **D. E.** 39, 97, 106
 — **D. W. C.** 288
 — **E.** 19, 251
 — **E. E. C.** 11, 13
 — **F. B.** 137
 — **F. W.** 191, 197
 — **H.** 7
 — **H. F.** 200
 — **H. L.** 290
 — **H. Macnaughten.** 17
 — **H. S.** 36
 — **J.** 216
 — **J. H.** 154
 — **J. T. S.** 295
 — **L.** 289
 — **L. A.** 172
 — **L. M. M.** 79
 — **L. V.** 247
 — **M. W.** 69
 — **Sir R.** 267, 268
 — **R.** 261
 — **T.** 47
 — **T. G.** 47
 — **T. H.** 93

Name Index.

- Jones, T. W. 53
 — W. 134
 — W. H. 119
 — W. N. 200
 Jordan, C. H. 70
 — H. G. 42, 47
 Jörgensen, A. 137
 Jost, L. 202
 Jowett, W. 296
 Joyner, G. 304
 Judd, J. W. 166, 167, 194
 Jude, A. 98
 — R. H. 97, 107
 Judge, A. W. 88, 93
 Jukes-Browne, A. J. 168, 169
 Juler, H. E. 269
 Julian, H. F. 174
 — J. 68
 Julius, P. 147
 Jung, C. G. 19
 Juptner, H. F. v. 154
 Jutsum, J. M. 180
 Kanthack, A. A. 239
 — R. 102
 Kapp, G. 109, 114, 118
 Kapper, F. 114
 Kassner, T. 173
 Kay, S. A. 134
 Kaye, G. W. C. 105, 126
 Kayser, E. 168
 Keable, B. B. 219
 Kean, F. J. 88, 94
 Keane, A. H. 177, 179, 197
 — C. 132
 — C. A. 131
 Keary, C. F. 7
 Keatinge, M. W. 18
 Keeble, F. W. 202
 Keegan, D. F. 274
 Keen, G. R. 209
 Keim, A. W. 68
 Keith, Sir A. 197, 222, 223, 226,
 274, 285
 — J. R. 243
 — R. D. 244
 Kelland, P. 23
 Kellas, A. M. 125
 Kellner, O. J. 218
 Kelsey, W. R. 97, 112
 Kelson, W. H. 273
 Keltie, Sir J. S. 175, 179
 Kelvin, Lord. 3, 7, 21, 101
 Kelynack, T. N. 250, 251, 280
 — T. W. 239
 Kemp, P. 109, 113
 Kempe, H. R. 89, 118, 114
 Kempson, E. W. E. 112
 Kennedy, A. 52
 — Sir A. B. W. 72
 — A. M. 245
 — N. 51
 — R. 91, 93
 Kennelly, A. E. 110
 Kenwood, H. R. 233, 234
 Ker, C. B. 245
 — D. R. E. 213
 Kerr, G. 186
 — G. L. 172
 — J. 5, 233
 — J. G. 223, 228
 — J. M. 277
 Kershaw, G. B. 59
 — J. B. C. 142, 143, 153
 — J. W. 88
 — S. 300
 Kettle, E. H. 267
 Kew, H. W. 191
 Key, A. C. 144
 Keynes, J. N. 13
 Kickman, H. R. B. 225
 Kidd, F. 257, 258, 266
 — W. 194
 Kilgour, P. 297
 Kimball, A. L. 100
 Kimmins, C. W. 18
 Kinch, E. 123
 King, D. B. 250
 — F. T. 278
 — H. E. 81
 — J. 71
 Kingsbury, J. E. 119
 Kingscott, P. C. R. 134
 Kingsley, J. S. 191
 Kinzer, H. 299
 Kingzett, C. T. 123
 Kinzbrunner, C. 110, 114
 Kipping, F. S. 129, 131
 Kirby, W. E. 188, 189
 Kirkaldy, J. W. 184
 Kirkbride, J. 304
 Kirkpatrick, T. S. G. 173
 Kirkup, T. 5
 Kirnison, E. 280
 Kirschke, A. 88
 Kitchin, D. B. 10
 Kleen, E. A. G. 287
 Klein, A. 13
 — F. 27
 Klemin, A. 94
 Klingenberg, G. 111
 Klocs, J. A. Van Der. 65
 Knapp, A. W. 139
 Knecht, E. 134, 147, 299
 Knight, J. H. 79

Name Index.

- Knight, R. S. G. 134
 — S. R. 26, 85
 — W. 12
 Knoblauch, E. 201
 Knocker, D. 237
 Knott, C. G. 21, 22, 25, 96, 167
 Knox, A. 162, 179
 — A. V. 105
 — E. B. 233
 — G. D. 220
 — J. 126, 152
 — R. 105
 Knuth, P. 202
 Knuthsen, L. F. B. 256
 Koczorowski, Lt. 45
 Koenigsberger, L. 3
 Koller, T. 151
 Koppeschaar, E. 138
 Kozmin, P. A. 139
 Kraepelin, E. 253
 Krauch, C. 132
 Krause, R. A. 227
 Kretschmar, C. 299
 Krogh, A. 227
 Krohn, R. F. S. 228, 262
 Krusch, P. 165
 Kulpe, O. 7, 17
 L. H. 53
 Laby, T. H. 126
 Lachlan, R. 31
 Lack, L. A. H. 226
 La Cour, J. L. 114
 Lafar, F. 138
 Lagrange, F. 271
 Laird, J. 250
 Lake, P. 166, 168, 176
 — R. 274
 Lakeman, A. 66
 Lamarck, J. B. 194
 Lamb. 53
 — C. G. 107
 — H. 28, 39, 41, 42, 103
 — J. 88
 — J. B. 216
 — W. 273
 Lambert, H. C. 259
 Lambert, F. C. 308
 — S. 45
 — T. 139, 155
 Lambkin, F. J. 247
 Lamprecht, R. 171
 Lancaster, M. 117
 Lanchester, F. W. 73, 91, 92
 — H. V. 68
 — W. F. 229
 Land, H. C. 189
 Landauer, J. 132
 Lander, C. H. 301
 — G. D. 129, 296
 Landois, L. 226
 Landolt, E. 270
 — M. 270
 Landon, J. W. 41
 Landseer, Sir E. 193
 Lane, J. E. 222
 — Sir W. A. 257, 265, 266
 — Claypon, J. E. 235
 Lang, A. 224
 — W. H. 201
 Lange, K. R. 145
 Langenhagen, M. de. 256
 Langley, J. N. 223, 225, 226
 Langmaid, J. 81
 Lankester, Sir E. R. 170, 185, 186
 Lantsberry, F. C. A. H. 144
 Lapage, C. P. 280
 Lapworth, C. 166
 Larard, C. E. 25
 Larkman, A. E. 28, 110
 — A. H. 110
 Larmor, Sir J. 39, 96, 103
 Larnier, E. T. 113
 Larsen, A. 150
 Larter, A. T. 143
 Lascelles, T. W. 306
 Lasche, O. 89
 Latham, A. 244, 285
 — E. 55
 Latter, O. H. 185, 189
 Lattey, R. T. 97
 Laurance, L. 102
 Laurens, G. 273
 Laurie, A. P. 69, 141
 — C. L. 200
 — S. S. 5
 Laveran, A. 248
 Lavis, H. J. J. 236
 Law, E. F. 155
 — H. 52
 Lawn, J. G. 171
 Lawrence, C. P. 215
 Lawrie, E. 263
 Laws, B. C. 92
 Lawson, A. W. 104
 — F. M. 311
 — G. 31
 Laxton, 63
 Laycock, W. F. 147
 Lazarus-Barlow, W. S. 239, 240
 Lea, A. S. 225
 — A. W. W. 276
 — E. 255
 — F. C. 54
 Leach, A. F. 5

Name Index.

- Leaf, C. H. 223, 276
 — H. M. 116
 Lean, B. 124 •
 Leaning, J. 63
 Leatham, J. G. 24, 28, 25
 Le Bas, G. 127
 Le Bon, G. 20, 103
 Lecky, S. T. S. 180
 Ledeboer, J. H. 92
 Ledingham, J. C. G. 245
 Ledoux-Lebard, M. 264
 Leduc, S. 227
 Lee, A. B. 223
 — J. 119, 311
 — V. 13
 Leeds, F. H. 143
 Leer, C. H. 98
 — D. B. 250
 Leese, A. S. 296
 Letèvre, L. 65
 Leffmann, H. 132
 Leftwich, R. W. 244, 285
 Legg, J. W. 243
 — T. P. 260
 Legge, F. 103
 — T. M. 238
 Leggatt, W. 298, 299
 Leggett, B. 121
 Legros, L. A. 304
 Lehfeldt, R. A. 126, 127, 129
 Lehner, S. 148
 Leibniz. 10
 Leighton, G. R. 192
 Leland, C. G. 64, 78, 303
 Lelean, P. S. 233
 Lemaire, H. 245
 Le Maitre, W. 92
 Lemerle, G. 265
 Lempfert, R. G. K. 162
 Lennander, K. G. 258
 Lenzmann. 244
 Leonard, E. M. 5
 Lepine, J. 253
 Leri, A. 19
 Leriche, R. 263
 Leston, G. L. 51
 Letts, E. A. 126
 Leudesdorf, C. 32
 Leupp, F. E. 3
 Levett, R. 35
 Levy, D. M. 174
 — H. 92
 — S. I. 129, 150
 Lewers, A. H. N. 276
 Lewes, G. H. 5
 — V. B. 123, 143, 145
 Lewis, E. I. 129, 131
 Lewis, E. W. 142
 — H. M. 63
 — L. P. 53
 — S. J. 122
 — W. C. McC. 127
 — W. J. 164, 175
 Leyton, A. S. F. 239
 Libby, W. 5
 Lickley, J. D. 223
 Lidgett, A. 144
 Lieckfeld, G. 88
 Lilly, W. E. 49
 Lindsay, C. T. 48
 — J. 7, 249
 — J. A. 256 $\frac{1}{2}$
 — Lord. 76
 Lincham, W. J. 48, 73
 Ling, A. R. 138
 Lintern, W. 52
 Linton, R. G. 296
 Lister, J. J. 186
 — Lord. 231, 260
 — T. D. 278
 Lithgow, E. M. 271
 Littlejohn, A. R. 235
 Little, A. 178 $\frac{1}{2}$
 — A. G. 3
 — H. F. V. 129
 Liveing, G. D. 102
 Livens, G. H. 107
 Liversedge, A. J. 73
 Liversidge, J. G. 86
 Livingstone, R. 112
 Llewellyn, J. L. 237, 249
 Lloyd, A. H. 7
 — E. W. 211
 — F. E. 184
 — Ll. 244, 248
 — L. L. 147
 — R. E. 184, 185
 Lluria, E. 195
 Lochhead, J. 228
 Lock, G. W. 174
 — J. B. 35, 36, 41
 — R. H. 195, 219
 Lockwood, 63
 — C. B. 261, 263, 266, 276
 Lockyer, C. 267, 275
 — Sir J. N. 102, 159, 160
 Lodge, A. 28
 — G. A. 171
 — G. E. 193
 — Sir O. J. 2, 3, 36, 39, 108
 — R. C. 11
 Logan, D. D. 238
 Loewenfeld, L. 228
 Loewenthal, R. 147

Name Index.

- Logan, F. W. A. 45
 Lohmann, W. 271
 Lohnis, F. 214
 Lommel, E. 101
 — von. 97
 Lomax, J. W. 298
 Lones, T. E. 155
 Loney, S. L. 33, 34, 35, 36, 39, 41, 42
 Long, C. E. 19
 — H. C. 212
 — J. 214, 217
 Longmuir, P. 157
 Longridge, C. J. N. 276, 277
 Loosmore, C. 251
 Lord, R. T. 301
 Lorenz, A. 268
 Loring, F. H. 127
 Lossky, N. O. 10
 Lott, F. E. 138
 Louch M. 18
 Louis, H. 52, 153, 169, 174
 Love, A. E. H. 29, 39, 44, 167
 — J. K. 274
 Loveday, T. 15, 17
 Lovell, M. S. 191
 Lovett, W. J. 70, 71
 Lovibond, J. W. 102
 Low, B. 19
 — D. A. 31, 33, 43, 47, 73, 81
 — G. C. 246
 — R. C. 284
 — W. S. 273
 Lowndes, M. E. 15
 Lowry, T. M. 122
 Lowson, J. M. 200
 — W. 129
 Lucas, E. W. 286, 291, 292
 — F. 312
 — K. 227
 Luciani, L. 226
 Luckes, E. C. E. 294
 Luckhoff, L. 270
 Ludlam, E. B. 124, 129
 Luff, A. P. 125
 Luhe, M. 248
 Luke, T. D. 263, 283, 289
 Lukis, Sir C. P. 236, 292
 Lulham, R. 186
 Lumb, A. D. 165
 — N. P. L. 247, 266
 Lummer, O. 308
 Luminis-Paterson, G. W. 112
 Lunge, G. 132, 136, 145, 146, 151
 Lunt, H. J. 311
 — J. 130
 Lupton, A. 173
 Lupton, S. 126
 Lustgarten, J. 117
 Luttringer, A. 142
 Luys, G. 247
 — J. 227
 Lyall, M. 7
 Lycett, J. 94
 Lydall, F. 118
 Lyde, L. W. 177, 178
 Lydekker, R. 8, 170, 185, 191, 193
 Lyell, Sir C. 166
 Lyle, H. W. 226
 Lyman, T. 102
 Lyster, R. A. 236
 Lyth, E. R. 289
 M.R.C.V.S. 217
 MacAlister, D. A. 169
 McAulay, A. 23, 38
 Macaulay, F. S. 27, 31
 — W. H. 99
 Macbeth, A. K. 125
 MacBride, E. W. 186, 223
 McBride, P. 273
 Maccabe, F. F. 231, 295
 MacCall, W. T. 112
 MacCallan, A. F. 270
 McCann, F. J. 276
 McCarrison, R. 254
 M'Carthy, F. L. 34
 McCartney, H. P. 46
 McCaskill, A. 1
 McCaw, J. 279, 280
 McCay, D. 286
 M'Clelland, W. J. 35
 McConnell, P. 211
 McCrae, J. A. 239
 — T. 243
 McCulloch, C. 74
 MacCurdy, J. T. 253
 McDermid, N. J. 71
 McDonagh, J. E. R. 247, 288
 Macdonald, D. M., 280, 286
 — G. 18
 — G. W. 150
 — H. M. 107
 — J. 211
 — J. H. 253
 — R. St. J. 233
 — W. 215
 McDougall, W. 15, 16, 17, 20
 McDowall, S. A. 97
 MacEwan, P. 291
 MacEwen, J. A. C. 222
 MacFadyen, A. 184
 MacFarlane, J. 177
 Macfarlane, W. 153, 154, 156
 Macfie, R. C. 195, 289

Name Index.

- McGibbon, W. C. 86
 McGowan, G. 132
 Macgregor, J. G. 41
 — J. M. 240
 McGrigor, G. D. 164.
 MacHattie, A. 180
 McIntosh, J. 247
 — J. G. 138, 141, 142
 — W. C. 192
 McKail, D. 234
 McKay, R. F. 43
 Mackay, J. S. 25, 31
 McKay, W. J. S. 231, 276
 McKendrick, A. 237, 238
 — J. G. 226
 Mackenna, R. W. 288
 McKenzie, D. 273, 274
 — J. 246
 Mackenzie, Sir J. 231, 255
 — J. A. S. 249
 — J. E. 138
 — J. S. 10, 11
 — K. J. J. 217
 — N. T. 55
 — R. T. 287
 — T. 43
 — T. C. 254
 — W. C. 222, 227
 — W. L. 232, 279
 Mackie, A. 307
 — J. 302
 McKillop, A. D. 310
 — M. 286, 310
 MacKinder, H. J. 178
 McKinnon, F. C. 116
 McKisack, H. L. 244
 Mackrow, C. 71
 M'Lachlan, N. W. 25
 McLaren, R. S. 73
 MacLaurin, R. C. 101
 McLean, A. 98
 Maclean, H. 131, 239
 — M. 110
 MacLennan, A. 261
 Macleod, H. W. G. 233
 — J. 186
 — J. J. R. 226, 258
 — J. M. H. 264, 284
 — W. A. 156
 MacMahon, P. A. 27
 McMillan. 86
 — D. 79
 MacMillan, J. C. 279
 — W. G. 153, 155
 McMinnies, W. G. 92
 MacMunn, N. E. 175
 MacNab, A. 269, 271
 MacNab, J. 182
 — W. 150
 MacNamara, N. C. 16, 195
 Macnaughten-Jones, H. 17
 McNeile, A. M. 28
 — J. D. 28
 Macpherson, H. 3
 McPherson, J. A. 57
 McQueen, E. N. 16
 MacQueen, J. 296
 Macrobert, T. M. 23
 McTaggart, J. McT. E. 10
 McVail, J. C. 246
 McWilliam, A. 157
 Maddox, E. E. 270
 — H. A. 148, 305
 Madill, D. G. 277
 Magian, A. C. 247
 Magie, W. F. 97
 Magill, E. M. 290
 Maginnis, A. G. 71
 Magnus, L. 7
 — Sir P. 39
 Maguire, T. M. 179
 — W. R. 59
 Maher, M. 16
 Maitland, F. 2
 Maitre, W. le. 92
 Makins, Sir G. H. 264
 Makower, W. 105
 Malatesta, G. 145
 Malcolm, H. W. 120
 Mallik, D. N. 101
 Mamlock, H. J. 283
 Manacorda, H. 16
 Manders, A. S. 142, 219
 Mann, Dr. 256
 — G. 223, 227
 — H. L. 25
 — J. D. 238, 239
 — M. S. 274
 Manson, G. L. 61
 — Sir P. 259
 — Bahr, P. H. 259
 March, H. 244
 — N. H. 228
 Marchant, F. T. 238
 — W. H. 121
 Marett, R. R. 16, 197, 223
 Mark, E. L. 223
 — H. T. 5
 — L. P. 251
 Marks, E. C. R. 73, 74
 — Sir G. C. 56, 278
 — L. S. 81
 Marlow, T. G. 138
 Marquand, H. S. 119

Name Index.

- Marr, H. C. 253
— J. E. 166, 168, 169, 214
Marriage, R. 308
Marsh, C. E. 67
— J. E. 127
Marsden, R. 299
Marshall, A. 150
— A. M. 186, 192
— C. 286, 292
— C. D. 269
— F. H. A. 217, 223, 228
— H. 151, 164
— H. R. 16
— T. W. 215
— W. J. 88
Marson, P. 149
Martel, T. de. 265
Martin. 86
— A. B. R. 121
— G. 122, 124, 126, 129, 136, 146,
147, 150, 151
— H. N. 184
— J. 178
— M. J. 121
— N. 67
— W. A. 76
— W. D. 86, 88
— W. R. 181
Martindale, W. H. 288, 292, 293
Martineau, G. 138
Martinier, P. 265
Maryon, H. 78
Maskelyne, N. S. 164
Maslen, A. J. 200
Mason, A. C. 7
— F. A. 147
Massee, G. 200, 204, 212
Masselin, E. J. 230
Master, H. 137
Masterman, A. T. 186, 192
Masters, W. E. 259
Mastin, J. 165
Mather, T. 109
Matheson, D. 217
— E. 311
Mathews, G. B. 23, 27, 32
Matson, R. W. 288
Matthew, D. 252
Matthews, A. H. H. 215
— C. G. 138
— E. 216
— E. R. 54, 55, 60
— G. F. 37
— R. B. 91, 94
Mattos, A. T. de. 188
Maudsley, H. 16, 253
Maunder, E. W. 160
Maurice, W. 172, 173
Maw, P. T. 209
Mawson, E. O. 55
— F. 171
Maxim, Sir H. S. 3
Maxted, E. B. 128, 151
Maxwell, Capt. 181
— F. 138
— F. W. 35, 183
— J. C. 99, 103, 106, 107
— J. L. 236
— R. D. 275
— W. H. 59
May, C. H. 269
— O. 247
— P. 139
Mayall, G. 216, 217
— J. 196
Maycock, W. P. 107, 112, 113, 114,
116, 117
Mayer, C. 142, 148
Maylard, A. E. 250, 266
Maynard, F. P. 269
Mayo, C. H. P. 28
Mayor, J. B. 7
Mayou, M. S. 269, 270
Meade, A. 145
Meares, J. W. 54, 110
Meck, A. 192
Mees, C. E. K. 102
Meldola, R. 124, 131, 308
Mellanby, A. L. 48, 70
Melland, C. H. 258
Mellone, S. H. 13, 16
Mellor, J. W. 25, 130, 134, 149, 156
Melville, C. H. 233
— Davison, W. 233
Mennell, F. P. 168
— J. B. 263, 287
“Mentor.” 145, 146
Menzies, J. A. 225
— K. 228
Mercer, J. E. 103
— J. W. 28, 35
Mercier, C. 17, 213, 253
— Cardinal. 7
Meredith, C. M. 18
Méric, H. de. 289
Merrifield, J. 181
Merrington, E. M. 16
Merritt, W. H. 165
Merz, J. T. 5, 7
Mesnil, F. 248
Messum, S. 183
Metcalf, 4
— C. C. 116
Metchnikoff, E. 288

Name Index.

- Metson, G. 68
 Meycliar, L. 312
 Meyer, B. E. 7, 14
 Meysey-Thompson, R. F. 193
 Miall, B. 188, 250
 — L. C. 3, 184, 189
 Michaelis, D. M. L. 41
 Michell, S. 56
 Micholitsch, T. 276
 Middleton, E. C. 91
 — G. A. T. 49, 51, 59, 64
 — R. E. 51, 57
 Midgley, E. 300
 Miers, Sir H. A. 164
 Milburn, T. 212
 Miles, A. 232, 261, 263
 Mil, H. R. 175, 179
 — J. S. 6, 13
 Millais, J. G. 192, 193
 Millar, A. 69, 219
 — J. B. 31
 — W. J. 73, 82, 180
 Millard, C. K. 288
 Miller, H. C. 253
 — J. 239, 240
 — J. S. 77
 — R. 280
 Milligan, F. M. 219
 — Sir W. 274
 Millington, J. P. 3
 Millis, C. T. 25, 77
 — G. P. 283
 Milne, J. 33, 167
 — J. J. 32
 — J. S. 232
 — R. 300
 — R. M. 22, 41
 — T. 299
 — W. P. 27, 28
 Milner, H. B. 168
 Milroy, J. A. 135
 — M. F. W. 302
 — T. H. 135
 Milson, F. 151
 Minchin, G. M. 41, 42, 47
 — W. C. 250
 Minett, E. P. 229
 Minikin, R. C. R. 54
 Minto, W. 13
 Miremont, C. de. 161, 180
 Mitchell, A. 9
 — C. A. 128, 133, 137, 138, 141,
 148, 235, 238, 297
 — C. F. 61, 65
 — F. S. 69
 — G. A. 61, 65
 — J. 71
 Mitchell, P. 232
 — P. C. 184, 195
 — W. 16
 Mivart, St. G. 2
 Moggridge, J. T. 189
 Molesworth, Sir G. L. 46, 50
 — H. B. 62
 — W. H. 110
 Molinari, E. 137
 Moll, A. 279, 290
 Monahan, A. 7
 — A. J. 14
 Monckton, C. C. F. 121
 Monroe, T. K. 242
 Montagu, Lord. 80
 Montel, A. 68
 Monteverde, R. D. 312
 Moodie, A. R. 274
 Moor, C. G. 229, 233, 285
 — S. A. 202
 Moore, A. S. 301
 — B. 135, 195, 226
 — E. C. S. 54
 — F. 189
 — G. E. 11
 — H. 96, 143
 — Sir J. W. 162
 — N. 232
 — S. B. 79
 — T. 77
 — T. S. 129
 — Sir W. 236
 Moorhead, T. G. 224
 Mordin, R. 120
 More, C. G. 79
 Moreton, H. W. 115
 Morgan, A. P. 93
 — C. Lloyd. 16, 19, 187, 195
 — G. T. 131
 — J. D. 118
 — J. J. 156, 157
 Morison, A. B. 254
 — C. G. T. 211
 — J. R. 264, 266
 — R. 260
 Morley, A. 39, 43, 44, 81
 — H. F. 126
 Morrell, R. S. 141
 Morrice, G. C. 27
 Morris, C. 181
 — F. O. 189
 — Sir H. 222, 248
 — H. J. 283
 — I. H. 33, 48
 — Sir M. 284
 — T. N. 218

Name Index.

- Morrow, J. 89
 Morse, H. W. 126
 Morten, H. 294 *
 Mortimer, F. J. 308
 — G. 155
 — J. D. 263
 Morton, A. S. 271
 — E. R. 105
 — W. C. 222
 Moses, O. St. J. 276
 Moss, C. E. 203, 206
 — H. 84
 Mosso, A. 259
 Mott, Sir F. W. 18, 253
 Mottelay, P. F. 3
 Moutinier, T. 255
 Moullin, C. W. M. 248, 266, 267
 Moulton, Lord. 2
 Moussu, G. 217
 Mowat, H. 105
 Moynihan, Sir B. G. A. 266
 Mudge, G. P. 184, 200
 Mueller, F. 205
 Muir, J. 104
 — M. M. P. 124, 126, 133
 — R. 229, 288
 — Sir T. 27
 Muirhead, I. B. 271
 — J. H. 11
 — W. A. 236
 Mulhall, M. G. 38
 Mukerji, N. G. 211
 Mumford, E. E. R. 18
 Mummery, J. H. 282
 — J. P. L. 257, 262, 266
 Munby, A. E. 64, 130
 Mundella, V. A. 1
 Munro, J. 86, 110
 — R. D. 84
 — R. W. 219
 Muratet, L. 246
 Murdoch, W. H. F. 110, 115
 Murphy, J. K. 242, 247, 264, 280,
 285
 — Sir S. F. 234
 Murray, A. J. 71
 — D. A. 28, 29,
 — G. R. 254
 — H. M. 243
 — Sir J. 183
 — J. A. 213, 218, 220
 — J. E. 120
 — R. W. 265, 267
 Murrell, W. 238, 285
 Muscio, B. 17
 Muter, J. 132
 Myddleton. 3
 Myers, C. S. 17, 19
 — J. E. 125
 Nabarro, D. 248
 Naegeli, C. 196
 Nall, S. 276
 Nankivell, A. T. 233, 285
 Nash, J. T. C. 195
 Nasmith, J. 298, 301
 Nave, J. 204
 Nayler, W. A. 33, 41
 Naylor, C. H. 99
 — T. E. 304
 — W. 151
 Neale, R. E. 110, 111
 Neave, G. B. 131
 Neilson, R. M. 89
 Neligan, A. R. 236
 Nernst, W. 126
 Nettlefold, J. S. 68
 Neuburger, M. 232
 Neumann, E. 282
 Neville, H. A. D. 213
 — S. 113
 Newbigin, M. I. 175, 176, 178
 — M. T. 193
 Newby, E. J. 91
 Newcombe, S. 160
 Newell, A. G. 245
 Newham, H. B. G. 259
 Newland, C. B. 19
 — H. O. 219
 Newlands, B. E. R. 138
 — J. A. R. 138
 Newman, E. W. 311
 — Sir G. 234, 279
 — L. F. 213
 Newsham, J. C. 209, 211, 212, 214,
 216
 Newsholme, Sir A. 233, 245, 250
 Newsome, H. F. V. 58
 Newth, G. S. 124, 130, 132
 Newton, Sir I. 24
 — T. 77
 Nicholls, Capt. 182
 — A. E. 181
 — H. A. A. 211
 Nicholson, H. A. 170
 — R. T. 80
 — W. 143
 Nicol, G. 71
 Nicoll, M. 19
 Nielson, T. 49
 Nietzsche, R. 147
 Nisbet, D. T. 300
 — H. 299, 300
 — J. 209
 Nixon, R. C. J. 34

Name Index.

- Noble, Sir A. 158
 Norie, J. W. 182
 Normandy, F. 124
 North, N. 300
 Norton, F. 278
 Northcliffe, Viscount. 80
 Norton, G. 308
 Norwell, A. 41
 Nottage, W. H. 121
 Notter, J. L. 233
 Nowell, W. S. 283
 Noyer, J. 151
 Nunn, A. W. 292
 — J. A. 296
 — T. P. 22, 26
 Nutt, P. 91
 Nuttall, G. H. F. 189, 229, 245
 Obersteiner, Prof. 223
 O'Callaghan, M. A. 216
 O'Connor, F. W. 259
 — H. 59, 145
 O'Dea, J. J. 26, 36, 77
 O'Donahue, T. A. 51, 171
 O'Donoghue, C. H. 186
 Ogden, C. K. 9
 Ogg, A. 99
 Ogley, D. H. 60, 107, 117
 Okey, T. 302
 Okill, J. 88
 Oldfield, C. 277
 Oldham, F. 124
 Oliver, C. E. 69
 — D. 200, 206
 — F. W. 55, 195, 200
 — G. 241
 — Sir T. 238, 259
 Ombrédanne, Prof. 264
 Onodi, A. 270, 274
 Onslow, M. W. 135, 203
 Oppenheimer, C. 128, 238
 Oram, Sir H. J. 86
 Orford, H. 102, 308
 Ormandy, W. R. 144
 Ormerod, F. 297
 Ormsby, M. T. M. 51
 Orr, A. J. 73
 — J. 211
 — J. B. 295
 — M. A. 161
 Orrin, H. C. 222, 261
 Orton, G. H. 289
 Orthmann, E. G. 275
 Orwin, C. S. 214
 Osborn, G. 26
 Osborne, F. C. 94
 — T. B. 135
 Oschwald, U. A. 115
 Oscroft, P. W. 130
 O'Shea, L. T. 124
 Osier, Sir W. 243
 Osmond, F. 156
 Osterlag, R. 235
 Ostwald, W. 126, 180, 182
 Otabe, S. 250
 O'Toole, I. 46
 Oulton, L. 114
 Outram, J. F. 63
 Overbeck-Wright, A. W. 253
 Overend, W. 250
 Owen, E. 265, 266
 — H. 182
 — W. D. 121
 Owens, E. W. 180
 Page, C. M. 264
 — J. M. 29
 — W. 5
 Paget, S. 232
 Paine, A. 249
 Painton, E. T. 114
 Paisseau, G. 245
 Pakes, W. C. C. 233
 Pallin, W. A. 230
 Palmer, A. R. 107, 110, 115
 — J. H. 35
 — M. D. 287
 — T. F. 302
 — W. S. 9
 Pamely, C. 74
 Panton, A. 26
 — P. N. 240
 Pappenheim, A. 241
 Paramore, R. H. 275
 Park, J. 51, 54, 155, 156, 166, 169
 — W. E. 93
 Parker, C. A. 273
 — G. 232
 — G. W. 42, 101, 160
 — J. 99, 172
 — M. A. 132
 — P. A. M. 54
 — T. J. 7, 184, 186
 — W. N. 186
 Parkes, F. 289
 — L. C. 233
 — O. 70
 Parkinson, B. R. 146
 — S. 40, 101
 — T. W. F. 175
 Parr, A. 76
 — G. D. A. 110, 114, 115, 173
 Parry, E. J. 141, 142, 235
 — L. A. 259
 Parson, J. 63
 Parsons, F. G. 222

Name Index.

- Parsons, H. de B. 84
 — H. F. 234
 — J. H. 16, 102, 269, 270, 271
 — J. J. 290
 — S. J. 154
 Part, G. M. 168
 Partington, J. R. 25, 90, 130, 151
 Partridge, W. 124, 229, 235
 Partsch, J. 178
 Passmore, A. C. 62, 65
 Pasteur, 4
 Patchell, W. H. 173
 Paterson, A. M. 222, 223, 224
 — D. 299
 — G. W. L. 112, 116, 173
 — W. E. 38
 Paton, D. M. 288
 — D. N. 226, 240, 295
 — H. 304
 Patrick, G. T. W. 7
 Pattison, J. T. 155
 Paul, C. N. 284
 — J. H. 137
 — M. E. 228, 279
 — N. M. 9, 10
 Pavlov, I. P. 286
 Pavy, F. W. 258
 Pawson, H. C. 211
 Payne, J. F. 232
 — W. H. 4
 Paynter, J. E. 83
 Peacey, E. 296
 Peacock, D. H. 3
 Peake, A. H. 53
 — R. J. 301
 Pear, T. H. 253
 Pearce, E. K. 189
 — J. G. 310
 — W. J. 69
 Pearmain, T. H. 235
 Pearn, F. 311
 — S. 311
 Pearce, A. W. 217
 Pearson, 182
 — C. Y. 261
 — J. C. 77
 — J. H. 62
 — K. 3, 43, 44, 45, 49, 54, 195
 — M. 134
 — M. G. 263
 — N. 10, 16
 — S. V. 250
 Peattie, J. 84
 Peddie, A. 46
 — R. A. 2, 304
 Pedley, R. D. 282
 Peel, R. 172
 Peel, T. 81
 Pelly, S. A. 170
 Pembrey, M. S. 226, 240, 293
 Pendlebury, C. 36
 Pendred, V. 83
 Pendry, H. W. 120
 Penhallow, D. P. 261
 Penlake, R. 308
 Penlington, W. A. G. 216
 Penman, D. 173
 Pennington, A. S. 191
 Penrose, H. E. 107, 121
 Penzer, N. M. 219
 Percival, A. S. 25, 101, 272
 — G. A. 117
 — J. 212, 213, 214, 220
 Perkin, A. G. 147
 — F. M. 46, 124, 130, 133, 144
 — H. 173
 — W. H. 41, 124, 125, 129, 131
 Perol, F. 244
 Perrin, J. 103
 Perrott, A. D. 34
 — S. W. 53
 Perry, 3
 — J. 25, 28, 45, 82
 Peters, O. H. 256
 Petherbridge, F. R. 213
 Petit, G. 142
 Pettigrew, W. F. 83
 Pfeffer, W. 203
 Philip, A. 119
 — A. J. 304, 305
 — J. C. 127
 Philipson, J. 65
 Phillimore, J. 80
 Phillips, C. D. F. 293
 — H. J. 156
 — Sir J. 275
 — J. A. 169
 — L. P. 246
 — W. 204
 Philpott, T. V. 214
 Piaggio, H. T. H. 29
 Picard, H. K. 155
 Pickard, J. A. 156
 Pickering, W. H. 160
 Pickerill, H. D. 256
 — H. P. 282
 Pickford, A. G. 32
 Pickworth, C. N. 37
 — P. C. N. 311
 Pidduck, F. B. 107
 Pigg, J. I. 308
 Piggott, H. E. 85
 Piggott, H. 177
 Pilcher, R. B. 124, 137

Name Index.

- Pilkington, W. 51
 Pillsbury, W. B. 7, 16
 Pilon, H. 105
 Pinches, H. J. 261
 Pinkerton, P. 33
 — R. H. 31, 41, 42
 Pintner, R. 17
 Piper, C. W. 308
 Pippard, A. J. S. 93
 Pirie, G. 41
 Pite, B. 62
 Pitfield, R. L. 230
 Planck, M. 99
 Playfair, E. 232, 252
 Plimmer, R. H. A. 135
 Plomer, H. R. 305
 Plotinus. 9
 Plucknett, F. 302
 Plues, M. 205, 206
 Plummer, H. C. 160
 Pogson, F. L. 9
 Poincaré, H. 2
 Poland, J. 232, 268
 Politzer, A. 274
 Pollard, A. F. C. 54
 — A. W. 305
 — H. 158
 Polleyn, F. 299
 Pollock, C. E. 247
 — W. 88
 Pomponazzi, P. 6
 Poole, B. W. 302
 — H. E. 111
 — J. 120
 — W. H. 286
 Pope, F. G. 131
 — T. H. 137
 — Sir W. J. 164
 Popplewell, W. C. 44, 51, 74, 143
 Porritt, B. D. 142
 Porter, A. 191
 — A. E. 235
 — A. W. 40, 106
 — B. C. 180
 — C. 234, 237
 — C. T. 82
 — J. 217
 — W. G. 273, 274
 Poschl, V. 128
 Possnett, V. 304
 Potter, M. C. 201, 213
 — S. O. L. 222
 — T. 66
 Potts, H. E. 128, 142
 — W. A. 280
 Poulsen, A. 66
 Poulton, E. B. 189, 195, 196
 Powell, A. R. 134
 Power, F. D. 171
 — Sir D. A. 247, 261
 Powles, H. H. P. 72, 85
 Poynting, J. H. 96, 98, 176
 Poynton, F. J. 249, 255
 Poyser, A. W. 106, 107
 Praeger, R. L. 200
 Prain, Sir D. 296
 Prasad, G. 29
 Pratt, A. 206
 — H. B. 95
 — H. K. 82, 85
 Prausnitz, C. 274
 Preece, Sir W. H. 120
 — W. L. 120
 Prendergast, M. 70
 Prentice, H. R. 280
 Prescott, J. 40
 Preston, H. 124
 — T. 35, 99, 101
 Price, E. A. 36
 — F. W. 255
 — J. A. P. 242
 — T. S. 130, 131
 — W. 76
 — W. A. 115
 Prichard, A. H. 286
 Prideaux, E. B. R. 127, 134
 — R. M. 297
 Priestley, E. 297
 — J. 3, 4
 Priestman, H. 297, 298
 Primrose, H. S. 75
 — J. S. G. 75, 154, 155
 Pringle, A. 309
 — J. H. 263
 Pringle-Pattison, A. S. 7
 Pritchard, E. 279
 — J. L. 93
 Probyn-Williams, R. J. 263
 Procter, H. R. 149
 — R. A. 160, 161
 Prost, E. 133
 Prothero, R. E. 215
 Protheroe, E. 185
 Proud, E. D. 311
 Pryde, J. 38
 Przibram, H. 223
 Pull, E. 76, 85
 Pullen, W. W. F. 33, 43, 45, 73, 82,
 85
 Punnett, M. 36
 — R. C. 189, 195
 Puppe, J. 73
 Purchase, W. R. 43
 Purday, H. F. P. 88

Name Index.

- Purington, C. W. 312
 Purves, A. 157
 Purvis, J. E. 234
 Putsch, A. 144
 Pycraft, W. P. 192
 Pye. 264
 Pye-Smith, P. H. 242
 Quain, Sir R. 222, 243
 Quatrefages, A. de. 197
 Quiggin, A. H. 197
 Quilter, J. H. 300
 Quincke, H. 265
 Radasch, H. E. 223
 Radcliffe, J. W. 301
 Radcliffe-Crocker, H. 284
 Radford, E. M. 22
 — W. 294
 Radhakrishnan, S. 7
 Raffety, C. W. 105
 Raikes, H. P. 59
 Rainy, H. 244
 Rambaut, A. A. 162
 Rambousek, J. 238
 Ramsay, Sir A. C. 169
 — A. M. 269
 — A. R. J. 147
 — Sir W. 3, 100, 126
 Ramsbottom, A. 243, 255
 Ramsey, A. S. 40, 42, 101
 Rand, B. 13
 Randau, P. 78
 Randles, W. N. 309
 Rankin, D. J. 165
 — R. 116
 — W. 264
 Rankine, W. J. M. 43, 49, 73, 82, 90
 Raphael, F. C. 115
 Rappoport, S. 8
 Rastall, R. H. 165, 166, 168, 214
 Rat, J. N. 246
 Rausenberger, F. 158
 Ravenhill, A. 234
 Rawling, L. B. 224, 265
 Rawley, T. C. 297
 Rawson, C. 147
 Raxworthy, H. C. 272
 Rayleigh, Lord. 96, 99, 103, 105
 Raymond, J. 4
 Raymond-Barker, E. 114
 Rayner, H. 298
 — M. C. 200
 Raynes, F. W. 59, 60
 Rea, J. T. 63
 — R. L. 262
 Read, C. 13, 197
 — C. S. 253
 — H. H. 164
 Réal, P. 263
 Reaney, M. J. 19
 Redding, J. M. 290
 Redfern, J. B. 117
 Redgrave, G. R. 66
 Redgrove, H. 6. 127
 Redmayne, Sir R. A. S. 171, 172
 Redwood, Sir B. 144
 — I. I. 144
 Reed, F. R. C. 166, 169
 — H. L. 35
 — S. J. 89
 — T. 86
 Reeks, H. C. 295
 Reepen, H. B. 197
 Regan, C. T. 192
 Rehling, M. M. 201
 Reid, Sir A. 247
 — C. 168
 — G. 59
 — Sir G. A. 195
 — J. A. 62
 Reiser, F. 157
 — N. 301, 302
 Ren, sen, I. 124, 130
 Rendle, A. B. 200
 Rennie. 4
 — J. 185, 200
 Renwick, W. G. 65
 Revis, C. 139
 Rew, Sir R. H. 139, 218
 Reynolds, E. S. 234
 — O. 21
 — S. H. 191
 — W. D. 45
 Rhead, E. L. 153, 157
 Rhodes, H. J. 304
 — J. E. W. 168.
 — W. G. 113
 Riach, M. A. S. 93
 Ribot, T. 16, 20
 Richards, C. H. 30
 — P. A. E. 134
 — W. A. 154
 Richardson, A. 70
 — C. A. 10
 — H. 177
 — J. 82, 88
 — L. F. 54
 — O. W. 104, 105
 — S. S. 107
 — W. 147
 — W. G. 266
 Richmond, H. D. 216
 Richter, V. 131
 Rickaby, J. 10, 11
 Ricketts, T. F. 246

Name Index.

- Ricks, G. 65
 Rideal, E. K. 57, 128, 129, 155
 — S. 57, 130, 139
 Rider, J. H. 118
 Ridgeway, Sir W. 193
 Ridgway, A. C. 311
 Ridley, H. N. 206, 219
 Riemer, J. 172
 Riesz, M. 23
 Rignano, E. 2
 Riley, J. W. 65
 — W. J. 62
 Rimmer, E. J. 64, 85
 Rings, F. 67
 Rintoul, W. R. 98
 Ripley, W. Z. 197
 Ripper, W. 82
 Ritchie, A. E. 169
 — D. G. 8
 — E. G. 49
 — J. 195, 229, 240
 — L. C. P. 268
 — W. T. 254, 255
 Rivers, W. C. 250
 — W. H. R. 20, 251, 253
 Riviere, C. 250, 289
 Rivington, 62
 Rixon, C. H. L. 252
 Robb, A. A. 104
 Robert, B. I. 251
 Roberts, C. 93
 — C. H. 275
 — C. W. 86
 — F. 226
 — F. T. 243
 — G. H. 214
 — J. 110
 — M. E. 302
 — R. D. 166
 — T. 301
 — W. M. 41
 Roberts-Austen, Sir W. C. 153
 Robertson, A. W. 240
 — D. 113
 — F. D. S. 213
 — G. M. 253
 — J. 46
 — J. B. 144
 — J. M. 8
 — L. S. 85
 — N. 289
 — P. W. 133
 — W. 234, 235, 237
 — W. F. 254
 — W. G. A. 234, 238
 Robin, A. 289
 Robinson, A. 221
 Robinson, A. H. 267
 — F. E. 36
 — G. D. 277
 — G. R. 216
 — H. 56
 — H. C. 76
 — H. P. 308
 — J. L. 41, 183
 — W. 124, 213
 Robson, A. G. 73, 76
 — Sir A. W. M. 248, 256, 266
 — J. H. 47
 — W. A. 91
 Ropke, Dr. 240, 288
 Roesler, E. 87
 Rogers, A. G. L. 214
 — C. C. 208
 — F. H. 80
 — Sir L. 245, 246
 — R. A. P. 11, 33
 — W. M. 206
 Roget, F. F. 226
 Rohland, P. 128
 Rohr, M. von. 102
 Rolfe-Martin, A. B. 121
 Rolleston, G. 224
 — Sir H. D. 239, 241, 256
 — J. D. 246
 Romanes, G. J. 19, 195
 Romer, F. 263
 Römer, P. H. 280
 Ronaldson, J. H. 165
 Rood, O. N. 102
 Roper, A. G. 195
 Roscoe, Sir H. E. 102, 124, 126, 130
 Rose, E. M. 88
 — Sir T. K. 155
 — W. 261
 — W. N. 25
 Rosenberg, P. 77
 Rosenberg, E. 110
 — F. 33
 Rosenhain, W. 149, 156
 Ross, E. H. 189
 — F. W. F. 248
 — G. R. T. 10
 — J. S. 263, 283
 — P. 26
 — Sir R. 245, 246
 Rossetti, G. A. 46
 Roth, P. B. 268
 Rothery, G. C. 69
 Rothwell, C. F. S. 299
 — F. 251
 Rounthwaite, H. M. 86
 Routh, E. J. 40, 41
 Rowarth, E. 47

Name Index.

- Rowe, E. 65
 Rowland, A. F. 252
 Rowlands, R. P. 261
 Rownson, . 46
 Roxburgh, W. 157
 Royds, R. 82
 Royle, H. M. 146
 Rubencamp, R. 142
 Rudd, J. H. 65
 — W. A. 48
 Ruff, F. 90
 Ruge, A. 14
 Rugg, W. G. 180, 181, 182
 Ruggiero, G. de. 8
 Ruhe, A. 10
 Ruhmer, E. 121
 Russ, C. 247
 — S. 105
 Russell, A. 113, 114
 — A. E. 244
 — B. 10, 14, 22
 — E. J. 213, 220
 — E. S. 186
 — H. 189
 — I. 178
 — J. C. 176
 — J. W. 31
 — L. J. 14
 — R. 248
 — T. H. 205
 — W. 255
 Ruston, A. G. 143, 215
 Rutherford, 219
 — A. H. 226
 — Sir E. 105
 Rutley, F. 164, 168
 Rutter, W. P. 219
 Ryan, J. C. 236
 Rye, E. C. 189
 Ryland, F. 12, 16
 S.Y.K. 83
 Saberton, C. 290
 Sabine, M. H. 90
 Sachs, J. von. 199, 201
 Sackur, O. 127
 Sadler, H. 160
 — W. 216
 Sadtler, S. S. 132
 Sage, A. R. 62
 Sahli, H. 289
 Sahni, B. 200
 Sainsbury, H. 293
 Saker, D. G. 216
 Saleeby, C. W. 248
 Salisbury, E. J. 199
 — R. D. 166, 176
 Salmon, G. 33
 Salmon, P. R. 308
 — V. G. 51
 Salomons, Sir D. 116
 Salter, C. 140, 144, 146, 299
 — C. T. C. 138
 — W. M. 8
 Salvadori, G. 16
 Sampson, R. A. 160
 Samson, C. G. 62
 Samuel, A. M. 192
 Sand, H. J. S. 147
 Sandeman, E. A. 150
 Sanders, C. F. 7
 Sanderson, F. W. 42, 107
 Sandiford, P. 19
 Sandon, F. 25
 Sands, D. L. 115
 Sanford, P. G. 150
 Sankey, H. R. 82, 88
 Sargeant, F. W. 56
 — F. P. 125
 Sargent, A. J. 177
 — P. 244, 264
 Satterly, J. 96, 99, 107
 Saundby, R. 244, 256, 257, 259
 Saunders, B. 78
 — E. 189
 — J. T. 223
 Sauvage, E. 83
 Savage, Sir G. 253
 — W. G. 235
 Savill, T. D. 244
 Savin, J. 117
 Savoia, H. 157
 Sawyer, J. E. H. 258
 Saxelby, F. M. 25
 Saxl, A. 268
 Sayers, H. M. 118
 Scales, T. S. 196
 Scarlett, R. H. 99
 Schafer, Sir E. A. S. 222, 223, 226
 Scharff, R. F. 185, 193
 Schaub, E. L. 20
 Scheithauer, W. 144
 Schenck, H. 201
 Scherer, R. 189
 Schiaparelli, G. 159
 Schidrowitz, P. 142
 Schiller, F. C. S. 14
 Schimper, A. F. W. 203
 Schindler, K. 67
 Schlick, M. 104
 Schmidt, H. 138
 — O. 193, 195
 Schmieden, V. 261
 Schnabel, C. 153
 Schoeller, W. R. 134

Name Index.

- Schofield, A. T. 251, 253, 290
 Schönland, S. 196
 Schooling, W. 214
 Schopenhauer, A. 12
 Schorlemmer, C. 124
 Schott, G. A. 106, 107
 Schottelius, M. 230
 Schryver, S. B. 135
 Schubert, A. 77
 Schultz, F. 284
 — G. 147
 Schulze, F. 17
 Schuster, Sir A. 3, 96, 98, 101, 102
 — E. 194
 Schutzenberger, Prof. 128
 Schwartz, Dr. von. 171
 Schwarz, E. H. L. 167, 169
 Schweizer, V. 142
 Schwendener, S. 196
 Scorer, A. G. 190
 Scott, A. 126
 — A. A. H. 67
 — C. A. 33
 — D. G. 201
 — D. H. 170, 184, 202, 203
 — H. H. 244
 — J. F. 145
 — L. 214
 — R. F. 27
 — R. H. 162
 — S. R. 265
 — T. B. 243
 — W. 58, 296
 — W. A. 65
 — Mitchell, F. 69
 Scripture, E. W. 17
 Seabrook, A. H. 144
 Séailles, G. A. 7
 Searle, A. B. 65, 66, 128, 145, 149
 150
 — G. F. C. 44, 103
 Seaton, A. E. 86
 — E. C. 245
 Sedgwick, A. 186
 Seeligmann, T. 142
 Sencert, L. 264
 Sennett, R. 86
 Senter, G. 127, 130
 Sequeira, J. H. 284
 Seth, J. 8, 12
 Sessions, H. 217
 Seward, A. C. 2, 170, 195
 Sewell, T. 110, 112
 Sewill, H. 283
 — J. S. 283
 Sexton, A. H. 67, 73, 133, 134, 143
 153, 154, 155, 157
 Sexton, M. J. 85
 Seynour, A. 148
 Shakespear, G. A. 96
 Shanahan, E. W. 218
 Shand, A. F. 16
 Share-Jones, J. T. 295
 Sharp, D. 190
 — J. 57, 157
 — P. 298
 Sharpe, E. M. B. 190
 Shaw, A. H. 58
 — B. 75
 — C. W. 294
 — H. 93
 — J. H. 87
 — N. 209
 — S. 150
 — T. R. 73, 76
 — W. J. 121
 — Sir W. N. 97, 100, 163
 — Mackenzie, J. A. 249
 Shelley, C. P. B. 70
 Shennan, T. 239
 Shenstone, W. A. 130
 Shenton, E. W. H. 267
 Shepherd, E. C. M. 80
 — J. W. 133
 Sheppard, S. E. 127
 Shera, A. G. 288
 Sherborn, C. D. 185
 Sherlock, E. B. 253
 Sherren, J. 285
 Sherrin, G. C. 80
 Sherrington, C. S. 226, 233
 Sherwood, G. 215
 Shield, W. 54
 Shipley, Sir A. E. 3, 185, 186, 190,
 191, 196
 Shone, I. 59
 Shonk, A. 302
 Shore, A. 121
 — L. F. 225
 Short, A. R. 226, 242, 244, 261
 Showell, P. G. 180
 Shuckard, W. E. 190
 Shuttleworth, G. E. 280
 Sibley, W. K. 284
 Siddons, A. W. 26, 31, 32, 37, 98
 Sidgwick, A. 14
 — H. 8, 12
 Silberstein, L. 23, 24, 101, 102, 104
 Silk, A. E. 54
 — J. F. W. 263
 Sillem, C. 191
 Sim, J. 172
 — T. R. 205
 Simmonds, C. 138

, Name Index.

- Simmons, A. T. 97, 176, 177
 — W. H. 141
 Simms, F. W. 51
 Simon, T. 280
 Simpson, F. M. 5
 — W. J. 236, 246
 Sindall, R. W. 148
 Sivewright, Sir J. 120
 Skelton, R. A. and Co. 67
 Skinner, M. L. 278
 — W. R. 172
 Slack, J. E. 46
 Slade, J. H. 42
 Slater, A. 158, 215
 — J. A. 313
 Slaughter, J. W. 19
 Sleeper, M. B. 121
 Slessor, H. H. 10
 Slingo, Sir W. 107
 Sloan, S. 276
 Slosson, E. E. 104, 122
 Smart, E. 174
 — E. H. 32
 Smeaton. 4
 Smiles, S. 3
 Smith, A. C. 257
 — A. H. 232
 — B. 36, 176
 — C. 26, 32, 33
 — C. A. 44, 82, 88
 — C. F. 113, 115
 — D. 311
 — D. W. 180
 — E. 280
 — E. A. 155, 156, 261, 283
 — E. C. B. 56, 84
 — E. M. 19
 — Sir F. 295
 — F. 264
 — F. J. 234, 238, 244
 — F. J. J. 72
 — G. 185
 — G. E. 197, 253
 — G. F. H. 165
 — G. S. G. 229, 245, 259
 — G. W. 185
 — H. G. 164, 205
 — H. H. 219, 220
 — H. J. S. 21
 — J. C. 69, 142
 — J. H. 26, 32, 35, 36, 99, 129,
 214
 — J. S. K. 256, 268
 — L. F. 264
 — P. C. 252
 — P. H. P. 242
 — R. E. B. 308
 Smith, R. H. 28, 33, 46, 82
 — S. 151
 — S. P. 112, 113
 — S. W. 153
 — T. A. 73
 — T. B. 145
 — T. G. 88
 — T. S. 311
 — W. 302
 — W. G. 197
 — W. H. 48, 89
 — W. J. 213, 244
 Smyth, W. H. 159
 Smythe, J. A. 155
 — R. H. 295, 296
 Snaith, G. L. 179
 Snell, Sir J. F. C. 73
 Snowball, T. 270
 Snowman, J. 244
 Soddy, F. 2, 103, 105
 Sohn, C. E. 135, 286
 Solereder, H. 203
 Sollas, H. 167
 Solms-Laubach, G. 170
 Solomon, H. G. 115
 — M. 117
 Solomons, B. 275
 Somerscales, A. N. 86, 87
 Somerville, W. 211
 Sommerville, D. 234
 — D. M. Y. 34
 Sonder, O. W. 205
 Sorapure, V. E. 244
 Sorley, W. R. 6, 8, 12, 13
 Sornay, P. de. 220
 Sorsbie, R. F. 166
 Sothern, J. W. M. 87, 89, 143
 — R. M. 87
 Sourdille, Dr. 273
 Souster, E. G. W. 311
 South, R. 190
 Southall, W. 292
 Southcombe, J. E. 141
 Southern, L. 98
 Southward, J. 305
 Souttar, H. S. 251
 Soxhlet, D. H. 147
 Spackman, C. 66
 Spaight, J. M. 91
 Spanton, J. H. 48
 Sparrow, F. W. 308
 Spencer, A. S. 67
 — H. 3, 4, 11, 12, 16, 20, 311
 — J. F. 127, 130
 — L. J. 164
 — C. G. 264
 — W. G. 261

Name Index.

- Spencer, Browne, H. 262
 Spielmann, P. E. 131
 Spiers, F. S. 196
 Spikes, W. H. 73
 Spitta, E. J. 196, 309
 Spon. 90
 Spooner, H. J. 48, 80, 88, 151
 Sprague, E. H. 25, 41, 44, 49, 50, 55
 — J. T. 119
 Sprawson, C. A. 236, 289
 Sprigge, S. S. 232
 Springett, B. H. 82
 Squire, J. E. 243
 — Sir P. W. 223, 292
 Stace, W. T. 8
 Stacey, W. F. 163
 Staig, R. A. 186
 Stainton, H. T. 190
 Stallo, J. B. 98
 Standage, H. C. 139, 149
 Stanford, R. V. 131
 Stanley, H. 73, 98
 — R. 121
 Stansbie, J. H. 78, 153
 Stanton, W. F. 45
 Stark, A. C. 291
 Starling, E. H. 226, 227, 286
 — S. G. 97, 107, 110
 Startin, J. 284
 Staveley, E. F. 190
 Stead, J. E. 156
 Stebbing, E. P. 209
 — F. C. 181
 — L. S. 11
 — T. R. R. 191
 Stedman, T. L. 243
 Steel, J. H. 296
 Steele, J. C. 243
 — J. E. 71
 — W. J. 41
 Steenbeck, W. H. 313
 Steinheil, A. 102
 Stelfox, S. H. 40
 Stenhouse, E. 176
 Step, E. 191, 205, 206, 209
 Stephen, D. J. 8
 — G. A. 305
 — Sir L. 8
 Stephens, H. 211
 — J. W. W. 248
 Stephenson, C. 300
 — G. 63
 Stephensons. 3
 Stern, H. A. 25
 Sternberg, G. M. 288
 Steven, E. M. 279
 Stevens, F. H. 31, 34, 86, 120
 — H. B. 291, 292
 — H. P. 142, 148
 — T. G. 275
 — W. M. 244
 Stevenson, Sir T. 234
 — W. 209, 214
 Stewart, A. M. 97
 — A. W. 124, 128, 131, 234
 — B. 51, 98
 — D. 286
 — G. 85
 — G. N. 227
 — H. L. 8
 — I. 294
 — J. 305
 — J. M'K. 11
 — Sir J. P. 251
 — R. W. 98, 99, 101, 103, 107, 133
 Stieglitz, J. 133
 Still, A. 110
 — G. F. 280
 Stirling, W. 160
 Stobbs, T. 46, 153
 Stock, C. H. 62
 Stockbridge, F. P. 18
 Stockl, A. 8
 Stockman, R. 249
 Stocks, H. B. 139, 141, 151, 234
 Stoddart. 86
 — W. H. B. 254
 Stokes, Sir G. G. 96, 101
 — R. 155
 — R. S. G. 165
 Stone, G. 171
 — G. de H. 79
 — H. 209
 Stoneman, B. 201
 Stoncy, J. 29
 Stopes, M. C. 144, 170, 201
 Stopford-Taylor, G. 288
 Storey, F. W. 201
 Storrington, C. 18
 Story-Maskelyne, N. 164
 Stout, G. F. 16, 18
 Strachan, H. 237
 Strachey, Sir R. 206
 Strange, W. L. 55
 Strangeway. 295
 Strangeways, T. S. P. 229
 Strasburger, E. 201
 Stratford, E. Wingfield. 17
 Straton, C. R. 187
 Stratton, G. M. 18
 Stretton, C. E. 83
 Strickland, F. 80

Name Index.

- Strömeyer, C. E. 85
 Strong, C. A. 16
 — T. B. 2
 Struben, A. M. A. 183
 Strutt, E. G. 214
 Stuart, A. H. 24, 72
 — Low, W. 273
 Sturch, F. 65
 Sturge, M. D. 251
 Sturridge, E. 282, 283
 Sturrock, W. D. 234
 Sturt, H. 14
 Sudborough, J. J. 131
 Suddards, F. 300
 Suess, E. 167
 Suffit, C. 246
 Suttlng, E. R. 150
 Suggate, A. 50
 Sully, J. 16, 19, 20
 Summer, P. H. 95
 Summers, A. L. 145, 165
 Supino, G. 88
 Suplee, H. H. 89
 Sutcliffe, G. L. 66
 — J. A. L. 141
 Sutherland, G. A. 255, 281, 286
 — W. D. 238
 — W. G. 291
 Sutton, F. 134
 — Sir J. B. 232, 260, 267, 275
 Svedberg, T. 128
 Swaine, A. T. 167
 — W. 101
 Swainston, C. M. 181, 182
 Swallow, M. G. S. 89
 Swan, K. R. 1
 Swanton, E. W. 190, 204
 Swanwick, F. T. 35
 Swanzy, 270
 Swayne, J. G. 277
 — W. C. 277
 Sweet, H. 13
 Swietochowski, G. De. 285
 Swift, H. B. 119
 Swinburne, J. 82
 Swinhoe, C. 189, 190
 Swinton, A. J. 91
 Sydenham, Lord. 158
 Sykes, W. J. 138
 Sylvester, C. 94, 112, 114, 118
 — J. J. 21
 Sym, W. G. 269, 270, 271
 Syme, S. G. 273
 — W. S. 273
 Symington, J. 222
 Symmers, W. St. C. 260
 Symonds, M. 302
 Taggart, W. S. 298, 301, 302
 Tailfer, L. 300
 Tait, J. 181, 182, 227
 — P. G. 7, 21, 22, 28, 41
 Talbot, F. A. 71, 95, 144, 309
 Tancock, E. O. 160
 Tanner, A. E. 219
 — H. 212
 Tansley, A. G. 18
 Tanzi, E. 254
 Tarleton, F. A. 24, 42
 Tatlow, J. 4
 Tayler, A. J. W. 52, 74, 82, 88, 209
 Taylor, A. 234
 — A. E. 11, 12
 — A. S. 238
 — A. T. 83
 — E. G. R. 177
 — E. H. 222, 261
 — Sir F. 243
 — F. G. 29
 — F. N. 50, 57, 59
 — G. 75, 163, 179
 — G. G. S. 289
 — G. S. 288
 — H. G. 73
 — H. S. 128, 143
 — J. 132, 281
 — J. E. 40
 — J. T. 299, 308
 — S. 103
 — T. 46
 — W. 308
 — W. T. 115
 — W. W. 126, 128
 Teago, F. J. 109
 Teed, P. L. 130
 Teetgen, A. B. 219
 Telford. 4
 Terry, C. W. 65
 — H. L. 142
 Thatcher, E. 77
 Thearle, S. J. P. 71
 Theobald, F. V. 190, 214, 248
 Thesing, C. 184
 Thibierge, G. 247
 Thilly, F. 8
 Thiselton-Dyer, Sir W. T. 205, 206
 Thoday, D. 201
 Thoinot, L. H. 280
 Thole, F. B. 123, 127, 181, 183
 Thomälen, A. 110
 Thomas, E. M. 201
 — G. H. 91
 — H. H. 160
 — J. 132
 — J. B. 71

Name Index.

- Thomas, P. 134
 — W. N. 51
 Thompson, A. B. 169
 — A. W. H. 30
 — C. J. S. 292
 — D'A. W. 187
 — H. 76, 295
 — H. G. 4
 — H. S. 206
 — J. S. 4
 — R. F. M. 193
 — R. L. 178
 — S. P. 4, 28, 101, 108, 110,
 112, 270, 308
 — T. 110
 — Sir W. H. 286
 Thomson, C. F. 158
 — J. 128
 Thomson, A. 224, 261, 270
 — A. L. 192
 — G. 59
 — G. H. 17
 — G. P. 98
 — G. S. 216
 — H. C. 251
 — H. H. 250
 — H. T. 263
 — J. 96, 281,
 J. A. 2, 4, 5, 184, 185, 187,
 191, 194, 195, 196
 — J. A. K. 8
 — J. B. 22
 — J. H. 144
 — Sir J. J. 98, 104, 108, 128
 — M. 196
 — S. 243
 — Sir St. C. 273
 — W. 219
 Thorburn, A. 192, 193
 Thorn, W. H. 84
 — W. T. 87
 Thorne, L. T. 255
 — P. C. L. 137
 — W. B. 255
 Thornley, T. 298, 301
 Thornton, A. 40, 184
 — J. 176, 184, 227
 Thorp, E. L. 300
 — J. 305
 Thorpe, J. F. 147
 — Sir T. E. 4, 122, 126, 133, 137
 — W. H. 50
 Threlfall, H. 51
 Thresh, J. C. 235
 Thrift, W. E. 101
 Thurston, A. P. 93
 — C. B. 177
 Thursfield, J. H. 280
 — M. 239
 Tibbetts, T. M. 232
 Tibbles, W. 139, 236
 Tidy, H. L. 243
 Tiffany, F. 209
 Tilden, Sir W. A. 122, 124, 126
 Tilley, H. 273
 Tillyard, R. J. 190
 Timberg, R. 287
 Timiriazeff, C. A. 203
 Tims, H. W. M. 282
 Tinel, J. 251
 Tinker, F. S. 249
 Tinkler, C. K. 137, 144
 Tinney, W. H. 173
 Tirard, N. I. C. 285
 Tisdale, C. W. W. 216
 Titchener, E. B. 7, 12, 17, 18
 Titherley, A. W. 131
 Tod. 86, 87
 — F. H. 274
 Todd, A. H. 262, 281
 — J. 182, 219
 — T. W. 244
 Toderovich, G. 312
 Todhunter, I. 29, 34, 36, 44
 Tognoli, E. 133
 Tolkowsky, M. 101
 Tomes, C. S. 282, 283
 — Sir J. 283
 Tomkinson, C. W. 215
 Tompkins, A. E. 87
 Tonge, J. 145, 172
 Toovey, T. W. 217
 Topham, J. 313
 — W. H. 25
 Topley, W. W. 240, 307
 Torr, C. 71
 Torrens, J. 244
 Torrey, J. 142
 Torrilhon, G. L. 142
 Townsend, C. F. 308
 — F. 207
 — J. S. 104
 Tozer, H. F. 175
 Traill, T. W. 85
 Traube, M. R. 18
 Travis. 53
 Tredgold, A. F. 254
 Treiber, T. 75
 Treves, Sir F. 222, 261
 Trewman, H. F. 118
 Triggs, H. I. 68
 Trimble, C. J. A. 25
 Trinks, W. 82
 Trotman, S. R. 149, 300

Name Index.

- Trotter, A. P.** 60
 — **L. B. C.** 255
 — **W.** 20
Trouessart, E. L. 230
Truscott, S. J. 165, 174
Tubby, A. H. 261, 268
Tubeuf, C. von. 213
Tuck, G. L. 246
Tucker, R. 21
 — **T. G.** 13
Tuckey, C. L. 290
 — **C. O.** 33, 41
Tudsbury, J. H. T. 57
Tunzelmann, G. W. de. 108
Turek, H. 13
Turnbull, A. 2, 261
 — **W.** 299
Turner, A. L. 4, 273, 274
 — **C. C.** 91
 — **D.** 105, 290
 — **G. C.** 23, 25
 — **H.** 298
 — **H. H.** 104, 160, 161
 — **H. W.** 111
 — **L. B.** 121
 — **P.** 224, 261, 267
 — **T.** 153, 154, 157
 — **Sir W.** 4
 — **W.** 262
 — **W. E. S.** 128, 129
Tutt, J. W. 190
Tutton, A. E. H. 164
Tweedy, E. H. 277
Twelvetrees, W. N. 62, 67
Twining, E. W. 251
Twiss, D. F. 131
Twort, F. W. 296
Tyler, E. A. 124
Tyndall, J. 4, 168
Ugarte, J. P. 219
Upcott, H. 263
Underwood, A. B. G. 282
 — **A. S.** 282, 283
Unstead, J. F. 175, 177
Unwin, A. H. 209
 — **P. W.** 32
 — **R.** 68
 — **W. C.** 38, 48, 55
Urquhart, J. W. 116, 117
Urwick, E. J. 12
Usborne, P. O. G. 50
Usherwood, T. S. 25
Usill, G. W. 51
Valentin, W. G. 124
Valentine, C. W. 18
 — **E. J.** 171
Vallack, A. S. 263
Vallery-Radot, R. 4
Van Hall, C. J. J. 219
Van Liew, C. C. 18
Van 't Hoff, J. H. 126, 127
Varisco, B. 11
 — **P.** 16
Vassall, A. 98
Vaughan, D. T. G. 198
Vendelmans, H. 220
Venn, J. 14
Verdon, W. 255
Vermuyden. 3
Vernon, A. 215
 — **H. M.** 195
 — **Harcourt, L. F.** 50, 55, 59
Vickerman, C. 298
Villa, G. 17
Villamil, R. De. 42, 92, 103
Villavecchia, V. 137
Ville, G. 220
Vinall, J. W. T. 179
Vincent, C. 151
 — **H.** 246
 — **R.** 279
 — **S.** 227
Vines, S. H. 199, 201
Vittoz, R. 252
Vogel, E. 308
 — **H.** 307
Vogt, J. H. L. 165
Voit, E. 102
Vries, D. De. 75
 — **H. D.** 194
Vulpus, O. 281
Wabner, R. 173
Waddington, V. 287
Wade, C. F. 85
 — **J.** 131
 — **W. L.** 95
Wadia, D. N. 169
Wadmore, J. M. 127
Waele, A. de. 141
Wagggett, E. B. 274
Wagner, E. 235
 — **P. A.** 174
 — **R.** 137
Wagstaff, C. J. L. 103
Wahl, A. 147
Wakefield, S. 298
Wake, R. 65
Waldo, F. 163
Walford, E. W. 80
Walkden, S. L. 93
Walker, A. H. 235
 — **C.** 156
 — **C. E.** 17
 — **E. W. A.** 241

Name Index.

- Walker, G. T. 108
 — G. W. 167
 — J. 101, 125, 128, 130
 — J. W. T. 266
 — L. 302
 — L. J. 8
 — M. 112
 — N. 284
 — S. F. 85, 116, 117, 173
 — W. J. 92, 94
 — W. M. 151
 — Tisdale, C. W. 216
 Wall, E. J. 308
 Wallace, A. R. 3, 167, 193, 196
 — C. 265
 — Sir C. S. 266
 — J. 52, 94
 — J. S. 279, 281, 282, 286
 — W. M. 55
 Wallas, G. 20
 Waller, A. D. 227
 — H. E. 289
 Walley, J. T. 39, 236
 Wallis, B. C. 175, 177, 178
 — C. E. 282
 — F. 111
 — Sir F. C. 266
 — Budge, Sir E. A. 231
 — Tayler, A. J. 52, 74, 82, 88, 209
 Walmsley, R. M. 111
 — T. 222
 Walsh, D. 284, 289
 — J. J. 232
 Walshan, H. 250, 289
 Walsingham, Lord. 190
 Walston, Sir C. 12
 Walter, A. F. 182
 — K. 209
 Walters, F. B. 31
 — F. R. 250, 251
 Walton, A. J. 263
 — T. 71
 Wang, C. Y. 155, 169
 Wanhill, C. F. 232
 Wanklyn, W. 246
 Wansbrough, W. D. 29, 83, 84, 85
 Warburton, C. 190
 Ward, E. 266
 — F. 185
 — H. 121
 — H. M. 207, 209, 213
 — J. 10, 17, 196
 — S. 12
 Warden, A. A. 282, 289
 Wardt, R. G. de. 119
 Waring, E. J. 292
 Waring, H. J. 262
 Warrington, R. 220
 Warming, E. 201, 203
 Warn, R. H. 77
 Warnes, A. R. 145
 Warrell, C. 220
 Warren, A. G. 82
 — E. J. 368
 — R. 261
 — W. H. 50
 Warwick, F. J. 291
 Washbourn, J. W. 245
 Washburn, M. F. 12
 Wasmann, E. 196
 Watkins, A. 308
 Watson, B. P. 275, 276, 277
 — D. 246, 247
 — D. C. 244
 — E. R. 127
 — G. N. 23
 — G. W. 80
 — H. S. 59
 — H. W. 100
 — J. 48, 66, 78, 213
 — J. K. 247, 278, 294
 — T. H. 71
 — W. 98, 217, 300
 Watt. 4
 — A. 119, 141, 148, 149
 — Sir. G. 219
 — H. J. 17, 103
 Watts. 126
 — F. 20, 212
 — H. C. 93
 — W. M. 102, 207
 — W. W. 167
 Weatherburn, C. E. 24
 Weatherhead, R. 161
 Webb, A. D. 38
 — C. C. J. 8
 — E. 17
 — H. J. 212
 — J. C. 290
 — S. 5
 — T. W. 160
 — W. 68
 — W. M. 191
 — Johnson, A. E. 246
 Webber, E. 313
 — F. C. 65
 — W. H. Y. 146
 Weber, A. 8
 — C. O. 142
 — Sir H. 259, 289
 Webster, A. D. 209, 210
 Weeks-Shaw, C. 294
 Weigall, A. G. 212

Name Index.

- Weininger, O. 18
 Weissbach, J. 56, 74
 Weismann, A. 196
 Weiss, F. E. 213
 — R. 240
 Welby, F. A. 3, 226, 227
 Wellington, R. H. 238
 Wells, G. C. 51
 — G. J. 88
 — H. G. 187
 — P. A. 65
 — S. H. 40, 48
 Welton, J. 14
 Wenyon, C. M. 259
 Werner, L. 270
 Wertheim, E. 276
 West, C. E. 265, 269
 — F. W. 53
 — G. 309
 — G. S. 204
 — M. 19
 — S. 256
 Westaway, F. W. * 2
 Westcott, G. J. B. 28
 — W. W. 288, 292
 Westell, W. P. 185, 192, 193, 201
 Westermarck, E. 11
 Westinghouse, G. 3
 Westland, A. 278
 Weston, F. E. 133, 140
 — H. C. 147
 Whale, G. 95
 — H. L. 265, 269
 Whall, C. W. 150
 — W. B. 181, 182, 183
 Wharton, Sir W. J. L. 183
 Wheatley, O. 66
 Wheeler. 242
 — O. 308
 — R. V. 144
 — Sir W. I. de C. 262
 Wheen, C. W. 54
 Whellens, W. H. 210
 Whetham, W. C. D. 96, 108, 128
 Whewell, W. 21
 Whinyates, L. 125
 Whipham, T. R. C. 281
 Whitaker, J. R. 221, 224
 Whitby, G. S. 142
 White, B. 155
 — C. P. 267
 — C. G. 91
 — G. M. 60
 — G. T. 73
 — H. A. 155
 — H. G. 117, 120
 — H. J. 71
 — J. R. 267
 — J. W. 207
 — R. P. 256, 284
 — T. H. 80
 — Sir W. H. 291, 293
 — W. H. 98, 257
 — W. L. 60
 Whitehead, A. N. 2, 8, 22, 27, 30, 32
 — S. E. 146
 Whitelaw, J. 51
 Whitelegge, Sir A. 234
 Whiteley, R. L. 126, 130
 Whitelocke, R. H. A. 267
 Whitfield, A. 284
 Whiting, A. J. 244
 Whitla, J. A. 292
 — Sir W. 243, 285, 291
 Whitney, W. D. 13
 Whittaker, C. M. 148
 — C. R. 198, 221, 222, 224, 227, 260, 261
 — E. T. 23, 41, 102
 — T. 8, 12
 — W. E. de B. 80
 Whitwam, J. H. 302
 Whympster, R. 139
 Wiberley, T. 212
 Wickham, H. A. 220
 — L. 289
 Widdowson, T. W. 282, 283
 Widgery, A. G. 11
 Wight, J. T. 42
 Wigley, T. B. 78
 Wilcockson, W. H. 165
 Wilcox, E. V. 235
 Wilda, H. 74, 89
 Wildgoose, A. 73
 Wilkes, W. H. 182
 Wilkinson, M. E. 302
 — W. T. 305
 Willcocks, Sir W. 55
 Williams, A. 307
 — G. 182, 264
 — H. E. 132
 — H. W. 305
 — J. 83
 — L. 243
 — M. M. 212
 — M. V. 11
 — P. W. 274
 — R. J. P. 263
 — W. 296
 — Ellis, C. 65
 Williamson, A. P. W. 181, 182
 — B. 29, 42
 — H. 52, 258

Name Index.

- Williamson, J. 51, 67
 — J. G. 811
 — R. T. 252
 Willis, J. C. 207, 212
 — M. 200
 — S. J. 121
 Willoughby, E. F. 216, 284
 — W. G. 246
 Willows, R. S. 98, 128
 Wilmore, A. 178
 Wilson, E. 118
 — F. H. 172
 — F. J. 126
 — H. 78
 — H. A. 98, 104
 — H. M. 137
 — M. R. 53
 — H. W. 258, 260
 — J. 196, 217
 — J. C. 31
 — N. J. 114
 — O. S. 190
 — R. M. 244, 310
 — R. McN. 255
 — S. 119
 — T. S. 255
 — Barker, Sir D. 181, 182
 Wimperis, H. E. 80, 89, 94,
 Winchester, C. 92
 Windelband, W. 14
 Windle, Sir B. C. A. 224
 Wingfield, H. 252
 — H. E. 290
 — Stratford, E. 17
 Wingrave, W. 274
 Winn, W. 210
 Winterbottom, J. 302
 Witkowski. 282
 Witthaus, R. A. 125
 Wodehouse, E. 11
 Wohlgemuth, A. 17
 Wolf, A. 14
 Wolff, C. E. 83
 — H. W. 212, 215
 — Eisner, A. 251, 288
 Wollaston, T. V. 191
 Wolstenholme, J. 22, 37
 Wood, A. 103
 — C. A. 176
 — F. 52, 59
 — Sir H. T. 5
 — J. 218
 — J. K. 148
 — J. T. 149
 — L. E. 112
 — P. W. 80
 — T. B. 189, 213, 217, 218
 Wood, W. Q. 263
 Wood-Jones, F. 191
 Woodall, H. 146
 Woodburn, W. 36
 Woodcock, W. H. 66
 Woodhead, Sir G. S. 230, 240
 — S. A. 213
 — T. W. 261
 Woodhouse, T. 297, 299, 300, 302
 Woodnutt, W. E. 216
 Woodroffe, J. F. 220
 Woodruff, H. A. 218
 Woods, H. 170
 — R. J. 44, 45
 Woodward, B. B. 191
 — C. J. 38
 — H. B. 167, 168, 169
 — W. H. 5
 Woodwark, A. S. 243, 294
 Woolf, C. H. 101
 Woollard, L. 71
 Woolaston, T. R. 73
 Woollatt, G. H. 130
 Wootton, A. C. 291
 — W. O. 165
 Wordingham, C. H. 111
 Workman, W. P. 31, 36, 37, 38
 Worster-Drought, C. 245
 Worth, C. A. 271
 Worthington, A. M. 42
 Wraight, E. A. 156
 Wrapson, J. P. 38
 Wren, H. 132
 Wrench, G. T. 277, 278
 Wrey, C. 212
 Wright, A. C. 69, 136, 141, 147
 — Sir A. E. 197, 230, 246, 288
 — A. W. O. 253
 — C. O. 48
 — C. R. A. 141
 — G. F. 168, 197
 — H. 245, 246
 — H. E. 138
 — H. T. 311
 — J. 115
 — J. E. 27
 — K. M. 201
 — L. 102, 197
 — M. R. 98, 99
 — R. S. 102
 — W. 222
 — W. B. 168
 Wrightson, J. 212
 — Sir T. 274
 Wryde, J. S. 71
 Wu Lien-Tsh. 246
 Wundt, W. M. 12, 17, 18, 20

Name Index.

- Wurtz, Prof. 128
Wyatt, H. 80
Wylie, A. M. 172
—— J. G. 252, 267
—— J. A. 248
Xydis, C. 51
Yarr, Sir M. 270
Yates, R. F. 77, 130
Yealland, L. R. 253
Yeaman, C. H. 111
Yearsley, M. 188, 274
Yeo, I. B. 285, 287
Yonge, E. S. 273, 274
Yorke, J. P. 98
Youatt, W. 217
Young, A. 27
—— A. P. 111, 118
—— A. W. 44
—— C. 63
—— C. A. 161
—— E. 177
—— E. W. 50
—— F. 80
Young, G. C. 23
—— H. 279
—— J. 228
—— J. E. 115
—— J. W. A. 22
—— M. 281
—— R. B. 174
—— S. 128
—— W. H. 23, 26,
—— W. J. 296.
Younger, E. G. 254
Youngson, P. 84, 87
Yule, G. U. 38.
Zachnsdorf, J. W. 305
Zander, E. 287
Zeeman, P. 102
Zeidler, J. 117
Zeller, E. 8
Zerr, G. 142, 148
Zichen, T. 18
Zimmern, A. 244
Zimmer, G. F. 74
Zittel, K. A. von. 167, 170

SUBJECT INDEX.

- Abdomen, Diseases of the, 258
- Surgery of the, 265
- Accumulators, Electric, 116
- Acetylene, 59, 143
- Acids, 150
- Acoustics for Musicians, 103
- Adhesives, 139
- Aerated Waters, 137
- Aerial Navigation, 94
- Aero Engines, 94
- Aerofoils, 93
- Aeronautics, 91 et seq.
- Aeroplanes, 91 et seq.
- Design and Construction, 93
- Aesthetics, 12
- Afforestation, 208 et seq.
- Agglutinants, 139
- Agriculture, 211 et seq.
- Aircraft, 91 et seq.
- Air Gas, 59
- Air screws, 93
- Airships, 95
- Air Sickness, 255
- Alcohol, 137
- Alcoholometric Tables, 120
- Algæ, 203
- Algebra, 25, 26, 27
- Alkalies, 150
- Alloys, Non-Ferrous, 154
- Alternating Current (Electrical Engineering), 112, 113, 114
- Aluminium, 155
- Ammonia, 145, 151
- Amputations, 266
- Anæsthetics, 262, 282, 283
- Analysis :
 - Air, 100
 - Chemical, 132 et seq., 213
 - Food, 235
 - Gas, 146
 - Metallurgical, 156
 - Spectrum, 102
 - Water, 234
- Analytical Chemistry, 132
- Anatomy, 221 et seq.
- Dental, 282
- Veterinary, 295
- Ancient Lights, Questions affecting, 62
- Animal Biology, 186
- Geography, 193
- Husbandry, 215
- Life, 187
- Mind, 19
- Portraiture, 185
- World, 185
- Animals, Anatomy of, 224
- Animate Nature, The system of, 2
- Anthracite, 144
- Anthropology, 197
- Antimony, 131, 155
- Antisepsis, 263
- Ants, 187, 189
- Appendicitis, 265, 266
- Arbitration (Building), 63
- Arc Lamps, 59, 117
- Arches, 49, 50
- Archimedes, Method and Works of, 22
- Architecture, 4, 48, 58, 61, 62, 70, 71
- Arithmetic, 21, 36
- Armature Construction, 111
- Arsenic, Organic Compounds of, 131
- Arthritis, 249
- Artificial Lighting, 59
- Artillery, 158
- Art Needlework, 302
- Asbestos and the Asbestos Industry, 165
- Asepsis and Antisepsis, 263
- Asphalt, 145, 169
- Assaying, 156
- Astronomy, 159 et seq.
- Nautical, 180
- Atlases, Astronomical, 161
- Geological, 168
- Atmosphere, The, 162
- Cases of, 100
- Atolls, 191
- Atomic Theory, 126, 128
- Atoms, 103
- Aviation, 91 et seq.
- Aviators, Reference Books for, 94
- Axial Fans, 60
- Bacteriology, 214, 229, 280
- Balloons, 95
- Bandaging and Dressing (Surgical), 263, 264

Subject Index.

- Banket, The, 174
Banket Making, 302
Batrachians, 192
Batteries, Electric, 115, 116, 118
Bees and Bee-Keeping, 187 et seq.,
216, 217
Beeswax, 217
Beetles, 188
Bells, Electric, 117
Benzol, 146
Bequerel Rays, The, 105
Beri-beri, 245
Biographies of Men of Science, 2
Biological Chemistry, 184
Biology, 10, 184 et seq.
Birds, 192
Bitumen, 145, 169
Bladder, Diseases of the, 258
Blast Furnace Practice, 157
Blasting, 172
Bleaching, 299, 300
Blood and Blood Pressure, 241
— Diseases of, 254
Blowpipe Analysis, 132
Boat Building, 64
Boiler Chemistry, 137
Boilers, 72, 84, 85
Books and Book-Binding, 305
Boot and Shoe Manufacture, 302
Boring, 57, 172
Botany, 198 et seq., 212
Brain, The, 227, 252, 265
Brakes, for Electric Tramway Cars,
118
Brassfounding, 157
Bread Making, 139
Brewing, 137
Bricks and Brickmaking, 65
Bridges, 49, 50
Briquetting, 144
Bronzing, Gilding, etc., 69
Builders, Mechanics for, 42
Builders' Quantities, 62, 63
Building Construction, 61 et seq.
— Law, 63
— Materials, 64
— Stones, 169
Butter and Cheese Making, 216
Butterflies, 187 et seq.

Cabinet-making, 64, 65
Cables, Electric, 114
Cacao, Cultivation and Curing of, 219
Caisson Sickness, 259
Calcareous Cements, 66
Calculus, 27, 28, 29
Cameos, notes on for Veterinary Sur-
geons, 296

Canal Engineering, 53
Cancer, 248, 267, 276
Candles, Manufacture of, 140
Cane Sugar, 218
Carbon Compounds, 130
Carbons, for Electric Lighting, Manu-
facture of, 117
Carpentry, 64
Carpets, 302
Carving, Wood, 64, 65
Casein, 139
Cast Iron, 154
Catalysis, 128
Cataract Extraction, 270
Caterpillar, Life of the, 188
Cattle and Cattle Breeding, 216, 217
Celluloid, 151, 152
Cellulose, 135
Cement, 66
Centrifugal Fans, 60
— Pumps, 56
Ceramics and Ceramic Industries, 65,
149
Cerebro-Spinal Fever, 245
Channels, Design of for Irrigation, 55
Charts (Navigation), 182
Chemical Calculations, 125
— Crystallography, 161
— Engineering, 136
— Fertilisers, 220
— Physiology, 227
Chemicals, Manufacture of, by Elec-
trolysis, 129
Chemistry, 122 et seq., 213
Chemists, Famous, 122
Child Study, 18
Children, Diseases and Hygiene, 279
et seq.
China Grass, 297
Chlorine and Chlorine Products, 151
Chloroform, 263
Chocolate, 139
Cholera, 245
Cinematography, 309
Civil Engineering, 49 et seq.
Clays and Clay Industries, 65, 149
Climate, 162
Climatology, 236
Climatotherapy, 289
Clinical Medicine, 243
Clock Repairing, 78
Clouds, 162
Coach Building, 65
Coal and Coal Mining, 144, 165, 169,
170, 172
Coal Fields (Kent; Scotland), 169
— Tar, 145
Coast Erosion and Protection, 55

Subject Index.

- Cob and Pisè Work, 65
- Cocoa, 139, 219
- Coconut Cultivation and Planting, 218, 219
- Coffee, Cultivation of, 219
- Coils, Induction, 115, 116
- Coins, History of, 4
- Cold Storage, 82
- Colliery and Field Surveying, 51
 - Working and Management, 172
- Colloids, 128
- Colour, in Relation to Chemical Constitution, 127
 - Blindness, 271.
 - Spectra, 102
- Columns and Struts, 49
- Comets, 160
- Commerce, History of, 4
- Commercial Engineering, 73
 - Geography, 177
- Compass (Magnetic) in Aircraft, 94
- Compass Work, 181
- Compressed Air (Mining), 172
 - Air-Power Transmission, 74
- Concrete, 66
 - Roads and their Construction, 52
- Conifers, 208, 210
- Conjunctiva, Diseases of the, 270
- Constipation, 257
- Constitutional Diseases, 248
- Consumption, 249, 250, 251
- Continuous Current Electrical Engineering, 112, 114
- Copper, 154, 155
- Coral and Atolls, 191
- Cordage Fibres, 297
- Corrosion and Protection of Metals, 67
 - of Iron and Steel, The, 153
- Cosmogony, Problems of, 160
- Costing, 311
- Cotton, 218, 219, 297
 - Doubling, 298
 - Manufacture, 301
 - Spinning, 298, 301, 302
 - Waste, 298
 - Weaving, 298, 299
- Cranes, their construction, 74
- Crayfish, The, 191
- Creation, Story of, 194
- Creative Chemistry, 122
 - Evolution, 9
- Crops, Field, 218
- Crystallography, 164
- Currency, History of, 4
- Current: (Electrical Engineering), 112, 113
- Cyanide Process for Extraction of Gold, 174
- Cyanogen Compounds, Chemistry of, 132
- Cycles, Motor, 80
 - Electric Lighting for, 118
- Cytology, 196
- Dairying, 215
- Dams, Construction of, 54
- Decoration, House, 68
- Decorative Design, 48
- Deformities and their Surgical treatment, 268
- Dentistry, 282, 283
- Dermatology (Skin Diseases), 284
- Design, Machine, 47 et seq.
 - Textile, 300
 - of Structures, 44
- Diamonds, 101, 173
- Diathermy, in Medicine and Surgery, 290
- Dictionaries of Technical Terms in English and other Languages, 312, 313 (*See also* "Terms.")
- Dietetics, 286
- Digestive System, Diseases of the, 256
- Diphtheria, 245
- Dirigibles, 95
- Discoveries:—
 - Astronomical, 169
 - Chemical, 122, 129
 - Geographical, 175
 - Twentieth Century, 4
- Diseases (various), 244 et seq.
- Disinfectants, 139
- Diving, 71
- Dock Engineering, 54
- Domestic Sanitation, 58, 59
- Doubling, 297, 298
- Drainage, 56 et seq.
- Draughtsmanship, 47 et seq.
- Dreams, 19
- Drilling, 75, 76
- Drugs, 139, 235, 293
- Drying Machinery, etc., 136
- Dust Destructors, 60
- Dyestuffs and Dyeing, 146, 299
- Dynamics, 40, 128
- Dynamo, 111, 112
- Dynamometers, 72
- Dysentery, 245
- Ear, Diseases of, 273, 274
- Earth, The, 167, 176
- Earthenware, 150
- Earthquakes, 167
- Earthworms and their allies, 190
- Eclipses, 160

Subject Index.

- Economic Geography, 177
 — ~~Geology~~, 169
 — Mineralogy, 164
 Education, History of, 4
 Egyptian Irrigation, 55
 Elasticity of Materials, 43
 — Mathematical Theory of, 41, 44
 Electric Furnaces, 155
 Electrical Engineering, 109 et seq.
 Electricity, 104 et seq.
 — Medical, 290
 — Applied to Mining, 173
 Electro-Chemistry, 128
 Electrolysis, 128
 Electromagnetism, 106—108
 Electro-Metallurgy, 155
 Electrons, 103
 Electro Plating, 118, 119
 Electro-Physiology, 227
 Electrotherapy, 283, 289
 Electrotyping, 304
 Elementary Science, 1
 Embossing, 304
 Embroidery, 302
 Embryology, 222
 Emery, 75
 Enamelling on Metal, 78
 Endogenetic Structures, 167
 Energy, Conservation of, 98
 — Thermal Measurement of, 99
 Engine Design, Graphic Methods of, 47
 Engines :
 Aero, 94
 Diesel, 88
 Internal Combustion, 87—89
 Marine, 85, 86
 Steam, 81, 82
 Engineering :
 Agricultural, 215
 Chemical, 136
 Civil, 49 et seq.
 Electrical, 109 et seq.
 Gas, 145
 Mechanical, 72 et seq.
 Engineers, Geology for, 166
 English Poor Relief, Early History of, 5
 Engraving, 304, 306
 Entomology, 187 et seq.
 Epidemics, 236
 Epilepsy, 252
 Estimating, 50, 62, 63, 89, 311
 Ethics, 11
 Euclid, 34
 Eugenics, 195
 Evolution, 9, 10, 103, 193
 Examination Guides on Navigation, 181
 Examination Papers (Mathematics), 22
 Exogenetic Structures, 167
 Experimental Chemistry, 123, 124
 — Psychology, 17
 Explosives and their Manufacture, 150
 Eye, Diseases and Injuries of, 269—271
 Fans, Centrifugal and Axial, 60
 Farming, 211, 212
 Farm Tractors, 215
 Fats, 139
 Feeding of Animals and Crops, 217, 218
 Fermentation, 137
 Ferments, 128
 Ferns, 204
 Fertilisers, 220
 Fevers, 241 et seq.
 Fibres, Textile, 297
 Field Crops, 218
 Field and Colliery Surveying, 51
 Files and Filing, 75
 Filters and Filter Presses, 136
 Finishing of Textile Fabrics, 299, 300
 Fiords, 167
 Fire Protection in Buildings, 68
 Fishes and Fisheries, 191
 Fitting, Electric, 116
 Flax, 218, 297
 — Spinning, 298
 Flight, Theory and Practice of, 91, 92
 Flora, 205
 Flour and Bread Making, 139
 Fluids, Mechanics of, 42
 Fly, The, 188, 189
 — in relation to Disease, 259
 Foods, 139, 286
 — Analysis and Inspection, 235
 Forensic Medicine, 237, 238
 Foreshores, Maintenance of, 55
 Forestry, 208 et seq.
 Forging, 77, 78, 154
 Formulae (Engineering), 50
 Fortification, 158
 Fossils, 170
 Foundations for Machinery, 72, 78
 Foundry Work, 74, 157
 Fractures and their Treatment, 263
 Frog, The, 192
 Frozen Meat Trade, History of, 4
 Fuels, 142
 Fungi, 204
 Fungoid Diseases of Plants, etc., 212

Subject Index.

Furnaces, Electric, 155
Furniture Making, 64

Gall Bladder, Diseases of the, 256
Galvanized Iron, 153
Gas, 100, 104, 143, 146
— Engineering, 145
— Manufacture, 145
Gauges, 46
Gearing, 73, 83
Gelatine, 139
Gem-Stones, 165
General Science, 1
Generators, Electric, 111, 112
Genetics, 193
Genito-Urinary System, Diseases of
the, 257
Geodesy, 50, 51
Geodynamics, 167
Geographical Distribution of Animals,
193
— — — Plants, 208
Geography, 175 et seq.
Geology, 105, 163 et seq., 214
Geometrical Drawing, 48
Geometry, 29 et seq.
Geophysical Investigations, 1
Gilding, Bronzing, etc., 69
Girders, 44, 49, 50
Glands:
Anatomy of, 223
Diseases of, 254
Glass and Glass Manufacture, 149
— Blowing, Methods of, 130
Glaucoma, 271
Glazing, Colour, 69
Gloves and the Glove Trade, 303
Glow Worm, The, 188
Glues, 64, 139
Glycerine, 140
Gold and Gold Mining, 154, 155, 165,
173
Goldsmiths' Work, 78
Gonorrhea, 246
Gout, 249
Graining and Marbling, 68
Grape Vine, Cultivation of, 219
Graphic Arts, 304
Graphics, 33
Grasses, 206, 207, 212
Grasshopper, Life of the, 188
Gravitation, 104
Grinding Machinery, 76
Gums, 141
Gun-Shot Wounds, 264
Guns, Theory of the Recoil of, 158
Gutta Serena, 142

Gynæcology, 231, 275 et seq.
Gyroscope, 45
Cryostatics, 45

Hæmatology, 241
Hand-Lettering, 48
Harbour Engineering, 53, 54
Hat Manufacturing, Chemistry of, 302
Head, Surgery of, 265
Headache, 252
Heart, Diseases of the, 254
— Surgery of, 265
Heat, 39, 99
— Engines, 81—83
— Treatment of Metals, 157
Heating of Buildings, 60
Hemp, Fabrics, Manufacture of, 300
— Spinning, 298
Herbals, 198 et seq., 219
Heredity, 193, 228
Hernia, 266
High Explosives, 150
— Temperatures, 49
Histology, 223, 239
History, Natural, 185
— of Science, Education, Learning,
Commerce, etc., 4
Hoisting Machinery, 74
Hops, 219
Horology, 78
Horse, The, 193
— Anatomy, Diseases, etc., of, 295,
296
Horse-Shoeing, 296
Hospitals, Isolation, 234
Housecraft Science, 1
House Decoration, 68
Human Geography, 179
Hydraulic Motors, 56
Hydraulics, 43, 53
Hydrodynamics, 42
Hydrogen, Chemistry and Manufac-
ture of, 130
Hydrographic Surveying, 183
Hydrology, Medical, 289
Hydrostatics, 39, 41, 42
Hygiene, 58, 232, 236
— of Children, 279
— Veterinary, 296
Hypnotism, 290

Ice Age, 167, 168
Ice-making, 82
Ideas (Scientific) of To-day, 1
Igneous Rocks, 168
Illumination, 59, 116, 117
Immunisation, Therapeutic, 287, 288

Subject Index.

- Incandescent Electric Lamps, 116, 117
 India Rubber, 142
 Indicators (Chemical), Theory and Use of, 134
 Induction Coils, 115, 116
 Industrial Chemistry, 136 et seq.
 — Engineering, 73
 — Organisation, 310, 311
 — Training, 1
 Industry, History of, 5
 — and Science, 1, 2
 Infant Feeding and Hygiene, 279
 Infectious Diseases, 244 et seq.
 Inflammation, Pathology of, 240, 241
 Ingots and Ingot Moulds, 157
 Injectors, Steam, 84, 85
 Ink Manufacture, 148
 Inorganic Chemistry, 124, 129
 Insanity, 253
 Insecticides, 152
 Insectivorous Plants, 198
 Insects, 187
 Installation, Electrical, 116
 Instruments:
 Electrical, 115
 Engineering, 49, 51, 75
 Optical, 101, 102
 Insulation of Electrical Machines, 111, 114
 Internal Combustion Engines, 87
 International Language and Science, 1
 Intestines, Diseases of the, 257
 Introduction to Science, 2
 Inventions, 4, 72, 122
 Ionization, 104, 105
 Iron and Steel, 153
 — Construction, 67
 Ironfounding, 157
 Ironwork, Strains in, 49
 Irrigation, 55
 Island Life, 167
 Isolation Hospitals, 234

 Japanning, Metal, 78
 Jena Glass, 149
 Joinery, 64, 65
 Jute: its manufacture, 297, 300
 — Spinning, 298
 — Weaving, 299

 Kidneys, Diseases of the, 257
 Kinetic Theory of Gases, 100

 Laboratories, Chemical, 130
 Laboratory Work and Arts, 130
 Lace and Lace Making, 302

 Lacquering and Bronzing Brass Ware, 78
 Land Forms, 167
 — Reclamation, 55
 — Surveying, 50 et seq.
 Language (International) and Science, 1
 — History of, 12, 13
 Lantern, Use of in Scientific Demonstrations, 102
 — Slide Making, 308
 Laryngology, 273, 274
 Lathes and Lathe Work, 75, 76
 Law, Mining, 171
 — Sanitary, 237
 —, Science of, 1
 Laying-off, 70, 71
 Lead, 154, 155, 165
 Lead (Sheet), Weights and Measurements of, 45
 Leather Manufacture, 148
 — Work, 302
 Lecithin and Allied Substances, 131
 Levelling, 51
 Life, Origin of, 193
 — and Science, 2, 184
 Lifting and Conveying, 74
 Light, 100, 101
 Lighthouses and Lightships, 71
 Lighting, Artificial, 59, 60, 116, 117, 118
 Lightning Conductors, 106, 107
 Limes, 66
 Linen Manufacture, 300
 — Weaving, 299
 Liquid Fuels, 143
 — Steel, 153
 Liquids, Motions of, 103
 — Viscosity of, 127
 Lithography, 304
 Liver, Diseases of the, 256
 Locomotive Engineering, 83
 — System, Diseases of, 267
 Logarithms, 36, 37
 Logic, 13
 Lubricants and Lubrication, 74, 139, 140, 144
 Lunar Theory, Treatise on, 160
 Lungs, Diseases of, 255, 256
 — Surgery of, 265
 Lymphatic System, Diseases of, 254

 Machine Drawing, Design, &c., 47 et seq., 109
 Machines, Theory of, 43
 Magnesium, Organometallic, 132
 Magnetic Compass in Aircraft, 94
 Magnetism, 106—108, 162, 181

Subject Index.

- Magnetos, 118
- Malarial Diseases, 245
- Mammals, 193
- Man, 2, 197
- Management, Scientific and Works, 310, 311
- Manganese Ores, 165
- Manures, 220
- Map Work, 176
- Maps, Astronomical, 161
 - Geological, 168
- Marble and Marble Working, 65, 66
- Margarine, 139
- Marine Engines, 85—87
 - Meteorology, 162
 - Signalling, 182
 - Surveying, 183
- Masonry, 49, 50, 65
- Massage and Movement Cures, 287
- Materia Medica, 291 et seq.
- Mathematics, 21 et seq.
 - (Mining), 171
- Matter, Properties of, 103
- Measurements:
 - Electrical, 115
 - Mechanics, 45
- Meat Inspection, 235, 236
- Mechanical Dentistry, 283
 - Engineering, 72 et seq.
- Mechanics, 39 et seq.
- Medical Geography, 236
 - Jurisprudence, 232, 237
 - Students, Chemistry for, 125
- Medicine, 231 et seq.
 - Veterinary, 295, 296
- Mediaeval Thought and Science, 1
- Mendelism, 195, 196
- Mensuration, 33
- Mental Development, 18
 - Disorders, 253
 - Tests, 17
- Mesopotamia, Irrigation of, 55
- Metallography, 156
- Metallurgy, 153 et seq.
- Metallurgical Dentistry, 283
- Metal Work (Turning, Welding, etc.), 76 et seq.
- Metals, 153
 - in Aircraft Construction, 93
 - Corrosion of, 67
 - Heat Treatment of, 157
- Metaphysics, 8
- Meteorology, 162 et seq.
- Meters, Electricity, 115
- Method and Science, 2
- Metric System, 45, 46
- Mica Mining, 173
- Microscopy, 196, 197
 - Dental, 282
- Midwifery, 277, 278
- Military Engineering, 158
 - Geography, 179
 - Ophthalmology, 270
 - Sanitation, 233
 - Surgery, 264
- Milk and Milk Testing, 215, 216, 235
- Milling Machines and Practice, 75, 76
- Mind, The, 15, 16, 17
 - Animal, 19
- Mine Drainage, 56
 - Surveying, 50 et seq.
- Mineral Oils, 143
 - Waters, 137, 287
 - Waxes, 144
- Mineralogy, 164, 165
- Mining, 171 et seq.
 - Geology, 169
- Model Drawing, 48
- Molecular Association, 128
 - Physics, 103, 104
- Mollusca, Life of the, 191
- Moon, The, 160
- Morphology:
 - Animal, 185
 - Plant, 201
- Mosses, 204
- Moths, British, 188, 189, 190
- Motor Car, Electrical Application to, 118
 - Engineering, 79, 80
 - Cycles, 80, 118
- Motors, 56, 88, 111, 112
- Mould, Vegetable, 190
- Municipal Engineering, 57, 58
- Muscles, Action of, 227
- Mycology, Technical, 138
- Nation, The, and Science, 2
- Natural History, 185
- Nature Study, 184
- Nautical Astronomy, 180
 - Tables and Terms, 181
- Naval Architecture, 70, 71
- Navigation, 180 et seq.
 - Aerial, 94
- Neck, Surgery of, 265
- Needlework, Art, 302
- Nerves and Nervous System, 227
 - Disorders of, 252
- Neurasthenia, 252
- Neurology, 223
- Nickel, 155
- Nitro-Explosives, 450
- Non-Ferrous Metals and Alloys, 154

Subject Index.

- Nose, Diseases of, 273, 274
Nucleic Acids, 134
Nursing, 263, 276, 294
- Obstetrics, 275 et seq.
— Veterinary, 295.
Occupational Diseases, 259
Oceanography, 182
Oil and Oil Fields, 139, 169
— Engineering, 74
— Motors, 88
— Tank Steamers, 71
Operative Surgery, 261
Ophthalmology, 269 et seq.
Ophthalmoscopy, 270
Optic Nerve, Diseases of, 270
Optics, 100, 101
Ordnance Survey Maps, 176
Ore Deposits, 169
— Dressing, 174
Organic Chemistry, 124, 130
Organism, The, Science and Philosophy of, 9
Origin of Life, 193
— Species, 194
Ornamental Stones, 66
Orthopædic Surgery, 267
Osmotic Pressure, 127
Osteology, 223
Otology, 273, 274
Oxy-Acetylene Welding, 77
Ozone, 129
- Paint and Painting, 68, 141
Palæobotany, 170
Palæontology, 170
Paper and Paper Making, 148, 305
Paralysis, Ocular, 271
Parasites, Diseases due to, 248
Patent Laws, 1, 2
Pathology, 239 et seq.
— Surgical, 262
Pattern Making, 74, 75
Pearls, 190, 191
Peat, 146
Pedagogy, History of, 4
Per-acids and their Salts, 130
Peritoneum, Diseases of the, 257
Permanent Way, Railways and Tramways, 52
Petrol Air Gas, 59
Petroleum, 143
Petrology, 168
Pharmacology, 292, 293
Pharmacopœias, 291, 292
Pharmacy, 291 et seq.
Philosophy, 6 et seq.
- Photo-Chemistry, 127
— Electricity, 307
Photographs, Telegraphic Transmission of, 119, 121
Photography, 307
Photomicrography, 196, 308, 309
Physical Chemistry, 127
— Geography, 176
Physics, 96 et seq.
Physiography, 175
Physiological Chemistry, 134
— Psychology, 17
Physiology, 225 et seq.
— Dental, 282
— Plant, 201
— Veterinary, 295
Pigments, 141
Pistols, Automatic, 158
Pitch, Manufacture of, 145
Plant Constituents, 135
— Disease and Pests, 212
Plants and Plant Life, 198 et seq.
— Poisonous, 212
Plague, 231, 246
Plating, Electro, 118, 119
Platinum Metals, 165
Plumbing, 57, 58
Plywood, Manufacture and use of, 64
Pneumatics, 39, 40, 42
Poisonous Plants, 212
Poisons and Poisoning, 238
Polyphase Currents, 110
Pond Life, 187
Poor Relief, Early History of, 5
Popular Science, 1
Portable Steam Engines, 82
Portland Cement, 66
Post-Mortem Examination, 239
Pottery, 65, 149
Poultry Farming, 216, 217
Power Plant, Electric, 111
— Transmission, 73, 74
Precious Metals, The, 155
— Stones, 165
Prescribing, 286
Preserved Foods, Manufacture of, 189
Printing, 304, 305,
— Inks, 148
— Telegraph System, The
 Baudôt, 120
 Textile, 299
Producer Gas, 143
Progress, Origin and Growth of, 9
Projection, Optical, 102
Propellers for Aircraft, 93
— Marine, 70, 85, 86
Proteids, Chemistry of, 227

Subject Index.

- Proteins, Chemical Constitution of, 135
 — The Vegetable, 135
 Psychiatry, 233
 Psycho-Analysis, 19
 — Therapeutics, 290
 Psychological Medicine, 242
 Psychology, 15, et seq.
 Public Health, 232, 234, 237
 Pumps and Pumping, 56
 Punjab Rivers and Works, 55
 Pyrometry, 99

 Qualitative Chemical Analysis, 133
 Quantitative Chemical Analysis, 133
 Quantities, Builders, 62, 63
 Quarrying, 171
 Quaternions, 23

 Radiation, 105
 Radio-Activity, 104, 105
 — Telegraphy, 120, 121
 Radium, 105
 — Therapeutics, 289
 Railways:
 Electric, 117, 118
 Permanent Way, 52
 Signalling, 52, 53
 Surveying, 51
 Tube, 53
 Rain, Work of, 168
 Rams, Hydraulic, 56
 Rare Earth Industry, 152
 — Earths, 129, 130
 Rationalism, History of English, 4
 Reagents, Chemical, 132, 133
 Rectum, Diseases of, 257
 — Surgery of, 265, 266
 Refraction of the Eye, 271
 Refractory Materials, 150, 169
 Refrigeration, 82
 Refuse Disposal, 60
 Re-inforced Concrete, 66, 67
 Relativity, 104
 Repairs, Building, 62, 63
 Reptiles, 192
 Resins, 141
 Respiratory System, Diseases of the, 255
 Rheumatism, 249
 Rhinology, 273, 274
 Rifle and Rifle Shooting, 158
 River Development, 176
 — Engineering, 53
 Rivers, 176
 — as Sources of Water Supply, 57
 — Work of, 168

 Road Making, 52
 Rock Asphalts, 169
 Rocks, 168
 Röntgen Rays, 105
 — in Medical Work, 289
 Roofing Tiles, 65
 Royal Society of Arts, History of, 5
 Rubber and Rubber Planting, 142, 218—220

 Salt, 150
 Salvarsan, 288
 Sands, 65
 — Refractory, 169
 Sanitation, 57, 232 et seq.
 Saw Mills, 77
 Scenery, Scientific Study of, 169
 Sciatica, 252
 Screw-cutting, 75, 76
 Scumbling, 69
 Seamanship, 180 et seq.
 Sea Sickness, 252
 Seasons, Biology of, 184
 Sea Water Distillation, 124
 Seaweeds, 203, 204
 Secretions, Internal, 227
 Seismology, 167
 Serum Therapy, 287, 288
 Sewerage, 57 et seq.
 Sex, 193, 228
 Sextent, The, 180
 Sexual Physiology, 228
 Shaft-Sinking, 172
 Shale Oils, 144
 Shales, 65
 Sheet Lead, Weights and Measurements of, 45
 — Metal Work, 77
 Shell Shock, 252
 Shells, 191
 Ships and Shipbuilding, 70, 71
 Shore Protection, 55
 Signalling, Marine, 182
 — Railway, 52, 53
 Silica and the Silicates, 149
 Silk Dyeing, 299
 — Industry, 297
 — Manufacture, 300, 301
 — Spinning, 298
 Silver, Metallurgy of, 154, 155
 Silversmiths' Work, 78
 Sizing, Materials used in, 68
 — Yarn and Warp, 299
 Skin Diseases, 284
 Slide Rule, 36
 Small-Pox, 231, 246
 Smithing, 77, 78

Subject Index.

- Smoke Prevention, 142
- Soap and Soap Manufacture, 139—141
- Soap Bubbles, 100
- Social Psychology, 20
- Socialism, History of, 5
- Sociology, 20
- Soils, 169, 220
- Solar System, 160
- Soldering, 77
- Sound, 102, 103
- Space and Time, Theory of, 104
- Species, Origin of, 194
- Spectacles, Prescribing of, 272
- Spectroscope, The, 132
- Spectroscopy, 102, 127
- Spices, 219
- Spiders, 187, et seq.
- Spinal Cord, Diseases of, 252
- Spinning, 297, 298
 - Machine, 301
- Sprue, and its treatment, 236, 258
- Stable Sanitation, 58
- Staffordshire Potteries, History of, 150
- Stained Glass Work, 150
- Staining, 68
- Stars, 160, 161, 181
- Statics, 40
- Stationary Steam Engines, 82
- Stationery, 305
- Statistics (Mathematics), 38
- Steam Boilers, Construction and Management, 84, 85
- Steam Engines, 43, 81, 82, 83
 - Heating, 60
- Steamships, 70
- Steel, 153
 - and Iron Construction, 67
 - Ships, 71
- Stencils and Stencilling, 68
- Stereochemistry, 128
- Stereotyping, 304
- Stoichiometry, 128
- Stomach, Diseases of the, 256
- Stone, Artificial and Masonry, 65
 - Mining and Quarrying, 171
- Stratigraphy, 168
- Straw and String Work, 302
- Strength of Materials, 43
- Stresses and Thrusts, 49
- Structures, Theory and Design of, 44, 49
- Struts and Columns, 49
- Submarine Telegraph, 120
- Submarines, 71
- Submerged Forests, 168
- Sugar; its manufacture, etc., 138, 218
- Sulphate of Ammonia, 151
- Sun, The, 160, 161
- Superheating on Locomotives, 83
- Surface Tension and Surface Energy, 128
- Surgery, 260 et seq.
 - Dental, 282
 - Veterinary, 295
- Surgical Anatomy, 221
- Surveying:
 - Hydrographic, 183
 - Land and Mine, 50 et seq.
 - Marine, 183
- Sweetmeats, Manufacture of, 139
- Switchboards, (Electric), 111
- Synthesis, Essays in Scientific, 2
- Syphilis, 246, 247
- Tacheometer Surveying, 51
- Tanning, 148
- Tapestry Weaving, 302
- Tars, 144, 145
- Tea, Cultivation of, 218, 219
- Teaching of Scientific Method, 14
- Technical Electricity, 109, 110
- Technical Terms, see "Terms."
- Teeth, Anatomy, etc., of, 282, 283
- Telegraphy, 119—121
- Telephony, 119—121
- Telephotography, 307, 308
- Temperatures, High, 99
- Terms:—
 - Aeronautics, 94
 - Architecture, 61, 62
 - Biology, 184
 - Botany, 200
 - Building Trades, 61, 62
 - Mechanical Engineering, 72
 - Medical, 242, 243
 - Nautical, 181
 - Optics, 101
 - Textile, 302
 - Wireless Telegraphy, 121
- and Dictionaries of, in English and other Languages, 312, 313
- Terrestrial Magnetism, 162
- Testing, Electrical Engineering, 114, 115
 - of Chemical Reagents, 132
- Tetanus, 246
- Textile Machinery, 301
- Textiles, 297 et seq.
- Theodolite Surveying, 51
- Theology and Science, 2
- Therapeutics, 285 et seq.
 - Dental, 283
 - Gynæcological, 276

Subject Index.

- Therapeutics, Ophthalmic, 271
 - Surgical, 262
 - Veterinary, 296
- Thermo-Chemistry, 127, 128
- Thermodynamics, 99, 127
- Thermo-Therapy, 289 •
- Throat, Diseases of, 273, 274
- Thrusts and Stresses, 49
- Thyroid Therapy, 289
- Ticks, 187
- Tidal Lands, 55
- Tides, 160, 176, 182
- Tiles, 65
- Timber, 208 et seq.
- Time and Space, Theory of, 104
- Tin, Metallurgy of, 155
 - Ore, 165, 169
 - Plate Industry, The, 154
- Tobacco, 219
- Tools, Machine, 76, 75
- Topographical Geology, 169
- Tow Spinning, 298
- Town Planning, 68
- Toxicology, 232, 237, 238
 - Veterinary, 296
- Traction, Electric, 117
- Tractors, Farm, 215
- Trade Unionism, History of, 5
- Tramways, Electric, 117, 118
 - Permanent Way, 52
- Transformers, 113
- Transmission, Electrical Engineering, 44
- Trees, 208 et seq.
- Trigonometry, 34, 35
- Tropical Hygiene, 236
 - Medicine, 258
- Tube Railways, Setting out of, 53
 - Wells, 55
- Tuberculin, 288, 289
- Tuberculosis, 249, 288, 289
- Tumours, 267
- Tungsten Ores, 165
- Turbines, 56, 89
- Turning, Metal, 76
- Typhoid Fever, 246
- Typography, 304
- Urinary Surgery, 266
- Urine, Examination of, 280
- Utilitarianism, History of English, 4.
- Vaccination, 231, 246, 288
- Valency, Theory and Studies in, 127
- Valuation, Mine, 171
- Valves and Valve Gearing, 83
- Varnishes and Varnishing, 68, 69, 141
- Vectors, 23, 113
- Vegetable Mould, 190
- Veneral Diseases, 246, 247
- Ventilation, 60, 172 •
 - of Electrical Machinery, 110
- Veterinary, 295, 296 •
- Vinegar, Manufacture and Examination of, 138
- Viscosity of Liquids, 127
- Vitalism, History and Theory of, 9
- Volcanoes, 167
- Volumetric Analysis, 133, 134
- War, Nervous Disorders Caused by, 252
- War and Science, 2
- War Ships, 70
- War Surgery, 264
- Warp Sizing, 290
- Wasps, 187, 189
- Waste Products, Utilisation of, 151
- Watch Repairing, 78
- Water, 137, 168
 - Analysis, 234
 - Hammer in Hydraulic Pipe Lines, 54
 - Power, 54, 56
 - Purification, 57
 - Supply, 53 et seq.
- Waterworks, 56, 57
- Waxes, 139, 144
- Weather, 162
- Weaving, 298, 299, 302
- Weights and Calculations (Mechanics) 45
- Welding, etc., 77, 119
- Well Sinking, 57
- Wells, Tube, 55
- Whales, 193
- Wheat, 218, 219
- Wireless Telegraphy and Telephony, 120, 121
- Wire-rope Ways, 74
- Wiring, Electric, 116
- Women, Diseases of, 275
- Wood Products, 151
 - Pulp, 148
- Woodwork and Allied Trades, 64
- Wood Working Machinery, 77
- Woollen Industry, 297
 - Manufacture, 301
 - Spinning, 298
- Worsted Industry, 297
 - Manufacture, 300, 301
 - Spinning, 298
- X-Rays, 104, 105, 164

Subject Index.

- X-Rays Diagnosis (Surgical), 262 •
- Therapy, 289
- Treatment of Skin Diseases, 284
- Yarns, Sizing of, 299
- Technical Testing of, 300
- Woollen and Worsted, Manufacture of, 300, 301
- Yellow Fever, 248
- Zinc, and its Alloys, 155
- Industry, 155
- Organometallic compounds of, 182
- Oxide, 69 •
- Zoology, 185, 214
- Zoophytes, British, 191

